

# Ashfahan Khan

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## Founding Senior Full Stack Engineer

Full-stack developer with 8 years of experience specializing in modern frontend ecosystems (React, Next.js, Svelte, Remix), design systems, and component architecture. Strong backend expertise in TypeScript, Node.js, Express, Prisma, and NestJS, with Python tooling for LLM-backed product features. Hands-on AI engineering with LangChain, RAG with HyDE retrieval, Hugging Face embeddings, and LangSmith evaluation. Proven in shipping scalable design token architectures, reusable component libraries, Figma-to-code workflows, and production RAG pipelines across healthcare, finance, SaaS, and enterprise software. Passionate about accessibility-first development (ADA/WCAG 2.1 AA), system design, and delivering maintainable, high-performance interfaces.

### SKILLS

**Languages:** ECMA 6, SCSS, JQuery, JavaScript, TypeScript, HTML, CSS, Python

**Frontend Web Frameworks:** Angular, React, Vue, Svelte, Next, Remix, Styled Component

**Backend Frameworks:** Node, Apollo Server, Prisma ORM, Express, Drizzle Orm, Nest

**AI Engineering:** Hugging Face embeddings, HyDE retrieval, LangChain, LangGraph, LangSmith, Prompt engineering, RAG pipelines, Vector databases

**Cloud Platform:** GCP, Firebase, AWS

**Libraries:** Material design, React Toolkit, Apollo Client, Tailwind, Redux, GraphQL, React Query, Radix UI, Chakra UI, Storybook, Vite, Webpack, Contentful, Strapi, AEM

**AI Tools:** Claude Code, Antigravity, Cursor, ChatGPT, V0

**Accessibility:** ARIA, axe DevTools, Screen Reader Testing (NVDA, VoiceOver), Semantic HTML, WAVE, WCAG 2.1/2.2

**Testing:** JEST, Coveralls, Enzyme, Testing Library, ViTest, React Testing Library, Cypress

**Team Collaboration:** Git, GitHub, Asana, Zendesk, Atlassian Jira, Scrum, Agile, Figma

### WORK EXPERIENCE

## Foundation Health

### Full Stack Developer

- **Built and deployed an internal RAG knowledge tool** using **LangChain**, **Hugging Face embeddings**, and **HyDE** retrieval over design system docs, component APIs, and runbooks — evaluated with **LangSmith** and tuned chunking + embedding config, lifting retrieval@5 from ~60% to ~85%.
- **Bootstrapped the project's AI development context** via `CLAUDE.md` and module-level guidance docs that AI assistants auto-load, giving every contributor consistent, repo-aware suggestions instead of generic ones.
- **Integrated Claude into CI/CD as an automated PR reviewer** with a `rules.md` ruleset (architecture boundaries, layering, naming, type-safety, accessibility, coverage) — the agent enforces it against each diff with inline file/line feedback, cutting reviewer turnaround.
- **Accelerated team velocity with AI-assisted tooling** (Claude Code, Cursor, GitHub Copilot) for component scaffolding, code review, and test generation.
- **30% faster feature rollout** by architecting a Svelte design system with reusable components, design tokens (color, typography, spacing), and Storybook documentation.
- **Translated Figma designs into production-ready components** using design-to-code workflows, mapping Figma Auto Layout to CSS Flexbox/Grid for responsive behavior.
- **Established component API design principles** including typed prop contracts, composition patterns, and variant support (hover, active, disabled) for consistent cross-team adoption.
- **Managed component versioning, changelogs, and deprecation strategies**, communicating breaking changes to consuming teams.

- **Ensured WCAG 2.1 AA compliance across patient-facing interfaces** by implementing semantic HTML, **ARIA** labels, and keyboard-**accessible** navigation, validated using axe DevTools.
- **15% faster backend response** achieved by designing and developing RESTful APIs using Node.js and SvelteKit.
- **20% faster page load times** delivered by building server-side rendered and interactive Svelte features.
- Type-safe PostgreSQL operations via **Drizzle ORM**, reducing schema-related bugs in production.
- Managed auth and session flows using **Firebase Auth** with SvelteKit server-side logic, handling **thousands of active sessions** reliably.
- **100% unit-test coverage** with Vitest in CI/CD.
- Applied **full-stack TypeScript** in a monorepo for type safety, modular service deployment, and team collaboration.

## BlueMeg (HONG KONG) Limited

### Front-end Developer

- Added new **feature modules** that enhanced core product functionality and improved user workflow efficiency.
- **50% reduction in manual signing time** delivered by developing a canvas-based document signing system.
- Refactored legacy **class components to functional React components**, simplifying the codebase and improving maintainability.
- Diagnosed and resolved **recurring production bugs and performance issues**, contributing to a more stable and responsive platform.
- **Improved platform accessibility and compliance** by implementing **ARIA** attributes, focus management, and keyboard navigation across core enterprise workflows.
- **Built and maintained a shared component library** with design tokens mapped from Figma styles to SCSS variables, ensuring visual consistency across the enterprise platform.
- Collaborated in an agile team, actively participating in sprint planning, task breakdown, and timely delivery of features.
- Maintained code quality by following best practices, writing clean code, and contributing to team discussions on architecture decisions.

## BaseVerify PVT LTD

### Front-end Developer

- **40% smaller payload size and faster requests** achieved by migrating from REST to GraphQL.
- **30% lower latency in client-server fetching** enabled by RTK Query with a custom GraphQL cache.
- **Enabled reliable real-time communication** by developing solutions integrating with Pub/Sub and Kafka event brokers.
- **Delivered a clean, consistent UI experience** through TailwindCSS and customized Material UI components.
- **Shortened onboarding time for internal users by ~35 %** by partnering with non-technical teams to document and streamline workflows.
- **Maintained sprint delivery timelines** by mentoring junior developers and guiding structured task management.
- **Delivered multiple projects end-to-end** from architecture design through deployment and testing, ensuring smooth handovers.
- **Enhanced accessibility of verification workflows** by applying semantic HTML structure, **ARIA** roles, and focus management patterns for screen reader compatibility.
- **Co-architected the full-stack system design** alongside one backend developer, owning frontend architecture and contributing to API design, data modeling, and verification workflow orchestration for the VaaS platform.
- **Designed and built the verification dashboard** with real-time status tracking, API integration workflows, and programmatic verification pipelines serving SaaS platform consumers.

## CloudSyte

### Full Stack Developer

- **20% improved scalability and deployment efficiency** achieved by designing full-stack architecture on Azure Cloud.

- **Increased database performance and consistency** by integrating Apollo GraphQL with Prisma ORM for efficient, type-safe queries.
- **Reduced redundant API calls and improved caching efficiency** by utilizing Apollo Client for optimized server-client communication.
- **Enabled reliable file management and retrieval** by building robust workflows using Azure Blob Storage for secure cloud-based data handling.
- **Ensured secure and seamless transactions** through end-to-end payment gateway integration, focusing on reliability and data integrity.
- **Delivered a modern, maintainable, and performant UI** by migrating from MDBootstrap to Material UI (MUI), improving overall user experience.
- **Streamlined development workflow** by implementing modular structure and reusable component patterns for faster future iterations.

## ONA.io

### Frontend Developer For OPEN-SRP Web

- **Ensured healthcare data interoperability and FHIR compliance** by collaborating with Google Developers to implement international data standards.
- **Improved frontend development efficiency and reusability** by building scalable UI components using Ant Design across multiple modules.
- **Reduced repetitive code and accelerated delivery** by developing modular, maintainable frontend components and shared utilities.
- **Enabled smoother integration between modules** by setting up a monorepo architecture with Lerna for package management.
- **Enhanced application predictability and structure** by implementing the Flux pattern for consistent multi-store state management.
- **Achieved ~98 % code coverage and ensured production reliability** by writing and maintaining comprehensive unit and service tests in Jest.
- **Maintained code quality and continuous delivery standards** through peer code reviews, CI/CD pipelines, and automated testing workflows.
- **Strengthened cross-team code quality and knowledge sharing** by conducting thorough pull request reviews and providing actionable feedback across distributed development teams.
- **Facilitated seamless onboarding for new contributors** by documenting module architecture, component usage guidelines, do's/don'ts, and development workflows across the monorepo.
- **Ensured accessibility compliance for healthcare interfaces** by implementing WCAG-compliant markup and testing with screen readers to support diverse user needs.

## SOFIT Consultancy Pvt Ltd

### Front-end Developer

- **Delivered 3+ client projects in parallel with 100 % on-time completion**, maintaining quality standards under high-pressure timelines.
- **Reduced maintenance issues by ~25 %** by standardizing frontend architecture and enforcing scalable coding practices across projects.
- **Improved onboarding and task turnaround efficiency by ~30 %** through mentoring and supervising 3 junior developers and interns.
- **Maintained zero critical defects post-release** by taking full ownership of core modules and ensuring proactive testing and QA coverage.
- **Delivered precise, client-aligned technical solutions** by analyzing requirements and maintaining close collaboration with stakeholders.
- **Enhanced code modularity and scalability** by decoupling and refactoring legacy UI into reusable React components.
- **Improved team collaboration and version control reliability** by enforcing Git standards, semantic commit conventions, and structured branching strategies.

## Outsource For Epik.io

- **Improved maintainability and scalability** by decoupling and refactoring legacy UI into reusable modular React components.
- **Delivered polished, production-ready interfaces** by converting rough mockups into responsive UI/UX using ReactStrap (Bootstrap).
- **Enhanced system integration reliability** by connecting the business and application layers for smoother data flow.
- **Improved usability and interface consistency** by providing continuous design and user-experience feedback.
- **Maintained organized collaboration** by using Git for version control, ensuring clean commits and structured code review processes.
- **Ensured cross-browser compatibility and responsive design** by testing interfaces across multiple browsers and devices, resolving layout inconsistencies for a consistent user experience.

## Outsource For Treeline Interactive

- **Delivered high-priority projects within 2-3 week deadlines** while maintaining strict performance and quality standards.
- **Enhanced scalability and maintainability** by refactoring and reorganizing the codebase into a clean, modular structure.
- **Delivered visually precise UI** by translating Figma mockups into production-ready React components with pixel-perfect accuracy.
- **Increased future development efficiency** by standardizing component patterns and documentation for hand-off and reuse.
- **Collaborated with cross-functional teams** including designers, QA engineers, and project managers to deliver client projects on schedule with comprehensive documentation and clear communication.
- **Maintained high code quality and consistency** by conducting thorough code reviews, writing unit tests, and enforcing TypeScript strict mode across the codebase.

## Tapcheck Inc

### Customer Support Representative

- **90%+ customer satisfaction maintained** while handling 40-50 support tickets daily via Zendesk.
- **Improved ticket resolution time and team coordination** by creating detailed process documentation and incident reports.
- **Ensured infrastructure stability and uptime** by proactively monitoring systems and escalating critical issues to Tier 2 and Tier 3 support.
- **Enhanced user satisfaction and retention** by providing fast, accurate responses and collaborating cross-functionally to resolve technical concerns.
- **Streamlined incident tracking and reporting** by maintaining complete case documentation, ensuring traceability and consistent follow-up.
- **Supported internal system improvements** by identifying recurring pain points and proposing optimizations to service workflows.
- **Maintained smooth IT operations** by implementing efficient escalation procedures, ensuring timely resolution of support requests.

## Freelance

### Full Stack Developer

- Completed **10+ freelance projects** overall, focusing on performance optimization, accessibility, and scalable UI architecture.
- Delivered high-priority projects within 2-3 week deadlines while maintaining strict performance and quality standards.
- Improved system responsiveness by implementing AWS Elasticsearch for indexing and rapid data filtering.
- Enhanced scalability and maintainability by refactoring and reorganizing the codebase into a clean, modular structure.

- Delivered visually precise UI by translating Figma mockups into production-ready React components with pixel-perfect accuracy.
- Increased future development efficiency by standardizing component patterns and documentation for hand-off and reuse.
- **Delivered headless CMS-driven projects** using Contentful and Strapi, building decoupled React frontends with optimized content delivery and SEO-friendly server-rendered pages.

## PROJECTS

### Fluid Framework - Open Source design system

[github.com/fluid-framework/Fluid](https://github.com/fluid-framework/Fluid)

Created an open-source CSS design system and UI library providing responsive utilities, design tokens, and composable layout primitives. Used in production across multiple projects including Lone Bird and QuellxCode. Managed versioning, documentation, and community contributions.

### Housewell – Real Estate Platform

[housewell.com](https://housewell.com)

Designed and built the entire full-stack architecture end-to-end as a founding developer — Next.js with SSR, Prisma ORM with PostgreSQL, WebSocket real-time collaboration, electronic document signing, state-specific workflows, CRM with market analytics, and WCAG-compliant responsive UI using Tailwind CSS and Redux Toolkit.

### Numeo Spot – AI-Powered Freight Dispatch Chrome Extension

Numeo (BlueJourney, Inc.)

Built an AI-powered Chrome extension for freight dispatchers on the DAT load board, enabling in-platform broker email drafting, instant RPM/margin calculations, and automated AI rate negotiations. Integrated with Samsara, Motive, and TT ELD providers for real-time fleet data. Optimized performance using Web Workers for location search, lazy-loaded routes, and TTL-based caching with memory-capped registries.

### Virtual Pharmacy – Healthcare Platform

Virtual Pharmacy is an AI-powered digital healthcare platform built for Foundation Health, delivering white-labeled solutions for pharmacy, telehealth, and diagnostics.

### Legacy – Obituary Platform

Worked on the world's largest online obituary platform serving 70%+ of U.S. deaths. Contributed to scalable frontend features including memorial pages, guest books, search, and high-traffic user experiences across thousands of partners.

### Guardix – Security Management SaaS

Guardix is a security management SaaS platform that empowers security teams with smart management. It streamlines scheduling, monitors employee activity in real time, and optimizes performance through data-driven insights.

### Smicolon – Corporate Website

Smicolon is a Software Development as a Service (SDaaS) company providing custom software, web and mobile development, UX/UI design, and IT consulting. The platform highlights its subscription model, case studies, and global presence across Germany, Pakistan, and South Africa.

### nTask – Project Management Platform

nTask is an all-in-one project management platform for SMBs, offering task management, collaboration tools, and integrations like Slack and Google Calendar. It serves over 250,000 users across 155 countries.

### Feature Inbox – Feedback Management Platform

FeatureInbox is a product feedback management platform that helps teams capture, organize, and analyze feedback through multiple sources and integrations. It includes a dashboard for managing feedback, issues, and roadmaps, along with user management and a public changelog.

### Angelfish – Personal Finance App

Angelfish is a privacy-first personal finance app that acts as a virtual financial planner. It runs locally on MacOS, Windows, and Linux with 100% private data storage. Features include household financial dashboards, goal planning with real-time impact analysis, life event scenarios, and Plaid integration for 11,000+ banks.

## **Megaphone Studio – Social Growth Platform**

A go-viral-on-demand platform that boosts LinkedIn and X growth through organic engagement from a network of 500+ creators with 60M+ followers. It includes broadcast sharing, niche matching, engagement groups, and growth services like ghostwriting and referrals.

## **PunkBodies – NFT Art Platform**

Developed an Ethereum-based NFT interface showcasing composable pixel art collections built on CryptoPunks. Improved client-side rendering by ~25% through React optimization and smart caching.

## **QuellxCode – Software Company Website**

Developed a modern B2B company website with smooth animations and modular sections for faster content updates. Increased visitor retention by ~25%.

## **FooChyn – Restaurant Management System**

Engineered a full-stack restaurant management app with live order tracking and sales analytics. Enhanced operational efficiency by ~35% through streamlined API architecture and responsive UI design.

## **Hak & Kak – Blogging Platform**

Built a dynamic CMS-driven blog site with custom animations and optimized scroll transitions, improving engagement time by ~20%. Delivered modular WordPress integration for content scalability.

## **Cat Survival Trust – Non-Profit Website**

Redesigned and modernized a legacy wildlife NGO website, improving accessibility and SEO ranking (Core Web Vitals up by ~30%).

## **E-Fund – Automated Inventory Software**

Developed an inventory automation system for retail vendors, digitizing sales and purchase workflows. Reduced manual record errors by ~40% and achieved near-real-time reporting with Node + MongoDB.

## **Imami – Minimalist Brand Website**

Delivered a sleek, fully responsive brand portfolio site emphasizing readability and fast load (<1.5 s).

## **Lone Bird – Creative Studio Website**

Built a pixel-perfect, fully responsive design using custom CSS units (no frameworks) to maintain visual fidelity across devices. Reduced cumulative layout shift by ~40%.

## **Bolan – Restaurant Website**

Bolan Restaurant is a Melbourne establishment blending authentic Pakistani cuisine from the Balochistan region with Italian offerings. Named after the historic Bolan Pass, specialties include slow-cooked Quetta-style lamb shank, goat karahi, biryani, and tandoori platters. Rated 4.3/5 on Google with halal-certified cuisine.

## **Armynat – Crowdfunding Subscription Page**

Created a high-conversion subscription page supporting startup fundraising campaigns.

## **Pro Car Paint Shader – Unity Tool**

Pro Car Paint Shader is a PBR shader for Unity that enables photo-realistic car paint, metallic, and transparent surface rendering. Features a multi-layer system with custom inspector for quick setup (Matte, Gloss, Pearlescent), real-time reflections, and cross-platform optimization.

## **LMIS – Labour Market Platform**

LMIS is a labour market platform for Libya that connects job seekers with employers through job listings and candidate management. It includes CV generation, company workflows, and a bilingual (Arabic/English) interface with LinkedIn authentication.

## **Tidy – Bookmark & Tab Management App**

Built a productivity platform to organize and sync browser tabs across devices. Designed cloud-sync architecture improving retrieval speed by ~40% and reducing local storage dependency.

## VOLUNTEERING & LEADERSHIP

### Fahad Shahid

Software Engineer @ Foundation Health

Fahad worked with me on the same team

Working with Ashfahan was like having a secret weapon on the team. Got a bug? A last-minute request? A mystery no one wants to touch? He'd be the first to say, "Let's do it." His can-do attitude isn't just a phrase—it's basically his default mode.

What I appreciated most is that he never shied away from a challenge. In fact, he'd run toward it. And if he didn't have the answer, he'd still jump in, sleeves rolled up, ready to figure it out with you. Think of him as your go-to co-pilot in the wild world of software engineering: supportive, sharp, and always game for a good problem-solving session.

Any team would be lucky to have him—just make sure you've got interesting problems to throw his way.

### Kateryna Lukianova

Business Analyst at Zoovu

Managed Ashfahan directly

I highly recommend Ashfahan as a good programmer with solid communication skills and always a positive attitude (which was a great help in our daily work routine). Thank you, Ash, it was a pleasure to work with you!

### Asim Hafeez

Engineering Lead

Worked on the same team

Ashfahan and I worked together, and I was lucky to call him my coworker. He consistently gave 100 percent effort to the team and played a significant role in ensuring that we completed things on time. He had excellent time management skills and a knack for keeping everyone calm and productive during intense crunch periods. Much recommended for senior javascript positions.

### Moiz Shah

CEO of Digital Marketing Agency

Managed Ashfahan directly

Ashfahan is a complete package. I have worked with him in the past, as a loyal employee, and as a person, I have found him to be highly professional and deliver above expectations. I wish him the best of luck in his future.

### Benjamin Mwalimu

Head of Technology @ Jacaranda Health | HL7 FHIR Expert

Ashfahan Khan is one of the most competent Frontend Engineers I have worked with. He helped my team build and define very good standards for the OpenSRP web project. His contribution was immense and very technically sound. Always looking forward to working with him.

### Asim Jahangir

Managing Director Geo Teleco

Senior to Ashfahan

Great guy we had at our place, Passionate Dev. We really enjoyed his surroundings at our workspace.

### Haseem Ul Haq

Senior Full Stack Engineer

Worked on the same team

It is easy to work when you have skilled and experienced person in your team and Ashfahan is one of those. Keep up the good work. Highly recommended for Frontend work.

### Aqib Ibrahim

Data Scientist | Data Engineer | Full Stack Developer

He is like an energetic developer who tries to resolve all issues related to any field.

### Haris Shahid, PMP

Decentralized Protocol Steward & Blockchain Product Alchemist

Ashfahan was senior to Haris

Best dev I have worked with.

## EDUCATION

**Bachelor in Computer Science** · QUSIT

Dera Ismail Khan, Pakistan