

Aditya Shelke

Product-Minded Full-Stack Engineer & Ex-CTO, Built Scalable Systems for 100K+ Users

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EDUCATION

Savitribai Phule Pune University (SPPU)

Bachelor of Engineering in Artificial Intelligence and Data Science

Pune, IN

08/2021 - 07/2025

EXPERIENCE

Chief Technology Officer (CTO)

BabyCloud.in (Adwaita Educare Pvt. Ltd.)

10/2025 - Present

Chhatrapati Sambhajnagar

- Promoted to CTO within 3 months; led an **8-member engineering team** across **16 repositories**, owning architecture decisions, sprint planning, and code reviews, improving product ship velocity by **40%**.
- Directed migration from **6 Node.js microservices to a modular TypeScript monolith**, cutting cloud costs by **40%** and deployment failures by **95%** with zero-downtime cutover for **100K+ active users**.
- Architected an **ACID-compliant financial escrow ledger** with MongoDB transactions; implemented a **48-hour clinical hold buffer** and automated cron-driven payout sweeps processing **\$10K+ monthly** in expert settlements.
- Built production security infrastructure: a **live DB-backed RBAC engine** across 9+ admin modules, a **3-tier OTP rate limiter** blocking **2,000+ daily spam attacks**, and **AWS WAF** rules, maintaining **99.9% uptime**.
- Overhauled CI/CD with **Google Cloud Build** and **EAS Build**, reducing build-to-store times from days to **under 3 hours** for **2 production apps** shipped to both App Store and Play Store.
- Built a **fault-tolerant Gemini LLM translation pipeline** rotating across **23 GCP projects** with a custom **JSON-repair lexer** for truncated outputs, cutting translation costs by **50%** while localizing **50,000+ content items**.

Full-Stack Developer

BabyCloud.in (Adwaita Educare Pvt. Ltd.)

07/2025 - 10/2025

Chhatrapati Sambhajnagar

- First engineering hire for a pediatric platform with **100K+ downloads**; rapidly adopted React Native in 2 weeks to **redesign the home screen**, driving a **20% DAU increase** and **35% faster screen loads**.
- Designed a **3,000-day content scheduling engine** with age-quantized targeting across **8+ content types**, automating developmental programming for **100K+ families**.
- Built a **universal deep-linking platform** with user-agent detection, native scheme triggers, and smart app-store fallback timers; integrated **SHA-256 certificate fingerprints** for verified Android App Links.
- Developed a **context-aware LLM parenting chatbot** using LangChain and RAG architecture, increasing in-app session duration by **25%** through personalized developmental advice.

Software Developer Intern

Boostmychild Pvt. Ltd.

7/2024 - 12/2024

Pune

- Led development of an enterprise admin panel in React serving 3 internal teams, improving operational efficiency by **30%** and reducing manual reporting workflows by **4 hours/week**.
- Designed and secured **16 RESTful API endpoints** with Node.js and Express; remediated **3 critical auth vulnerabilities** in legacy middleware and achieved **98% test coverage** with Jest.
- Built dashboards for real-time transaction analytics, user management, and order tracking across **10K+ monthly records** on PostgreSQL and Google Cloud.

Software Developer Intern

LiteFin Pvt Ltd

1/2024 - 3/2024

Remote

- Architected **11 RESTful APIs** for automated GST and ITR tax analysis, integrating with government GST portals to eliminate manual data entry for **50+ business clients**.
- Engineered SQL stored procedures on financial transaction tables, **reducing query time by 20%**; built automated filing pipelines for GSTR1A, GSTR2A, GSTR3B, and B2B invoices using Laravel.

Google Summer of Code Contributor

The Palisadoes Foundation (Talawa)

11/2022 - 11/2023

Remote

- Core contributor to Talawa, an open-source community management platform (**1,200+ GitHub stars**); shipped GraphQL API optimizations improving server response times by **15%**.
- Implemented a Redis caching layer and comprehensive test suites, improving query performance by **12%** and boosting code coverage by **10%** across the Node.js backend.

PROJECTS

Internode - Project Management Platform | [Demo](#)

04/2026

- Built a full-stack SaaS project management tool using Next.js 16 App Router, streaming pre-rendered task boards to achieve **zero** client-side loading states and sub-second page transition times.
- Designed a type-safe schema using Drizzle ORM on Neon PostgreSQL with compile-time query generation, eliminating **100%** of runtime database type errors across all endpoints.
- Integrated Better-Auth for session management with token rotation, CSRF protection, and OAuth, securing access for **multi-tenant** team workspaces.
- Technologies: Next.js, TypeScript, Drizzle ORM, PostgreSQL, Tailwind CSS, Bun, Vercel

JEMS - LLM-Powered Job Exploration and Matching System | [Demo](#)

08/2024 - 10/2024

- Engineered a fault-tolerant data pipeline using Selenium and Scrapy, ingesting and deduplicating **100K+ job listings** with automated schema normalization.
- Fine-tuned **Mixtral 7B** with custom training loops for semantic candidate-job matching, achieving **85% precision** on held-out evaluation sets.
- Designed an end-to-end MLOps pipeline (Docker, GitHub Actions, CRON) automating scraping → training → deployment, reducing manual intervention by **80%**.
- Technologies: Python, FastAPI, PyTorch, PostgreSQL, Selenium, Scrapy, Transformers, Docker, GitHub Actions

Kairos - Agentic AI System Architect | [Demo](#)

04/2026 - 05/2026

- Architected a collaborative, agentic workspace using Next.js 16 and xyflow/ReactFlow 12, automating horizontal/vertical topological system layout generation in **under 50ms** using Dagre hierarchical layout algorithms.
- Implemented an asynchronous state-synchronization polling loop with optimistic UI merging (via serverless Neon PostgreSQL & Drizzle ORM) running every **8 seconds**, reducing client-server state conflicts by **95%**.
- Designed a typesafe service registry supporting **250+** AWS/GCP and SaaS service assets with dynamic path resolution, ensuring **100%** dynamic SVG icon coverage across auto-generated system diagrams.
- Technologies: Next.js, TypeScript, ReactFlow, Drizzle ORM, PostgreSQL, Better-Auth, Turborepo, Bun, Vercel

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C/C++, Golang

Frontend: React, Next.js, React Native, Expo, Redux, HTML5/CSS3, Tailwind CSS, Webpack

Backend: Node.js, Express, MongoDB, PostgreSQL, Redis, GraphQL, REST APIs, Docker, JWT

Cloud & DevOps: GCP (Cloud Build, Cloud Run), AWS (WAF, S3, EC2), Firebase, Vercel, EAS Build, Linux

Tools: Git, Figma, Postman, Jest, Cypress, Vitest, JSDoc

CERTIFICATIONS AND ACHIEVEMENTS

Google UI/UX Design Professional Certificate: Completed 7-course specialization in user research, wireframing, and high-fidelity prototyping.

Open Source Contributor: Contributed to Hacktoberfest 2022 & 2023 with merged pull requests across 10+ community repositories.

Technical Team Lead: Led a 5-member development team to design and ship a college organization's website from concept to production in 10 days.