Sushant Shah Kanu

Software Engineer

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Profile

Full-stack engineer who owns features end to end, from database schema and APIs to the UI. Built and run a multi-tenant accounting SaaS used by **6 retail shops**, and ship AI-powered features on serverless AWS. **Available for full-time roles starting January 2027.**

Education

- **Virginia Tech** — Alexandria, VA, USA
  Master of Engineering in Computer Science — *Jan 2025 – Dec 2026*
- **Jawaharlal Nehru Technological University** — Hyderabad, India
  Bachelor of Technology in Computer Science Engineering — *Aug 2017 – Sep 2021*

Professional Experience

- **Full Stack Developer** | *Bharat Tech* — Jan 2024 – Nov 2024
  India
  - **Cut page load times by 30%** by re-architecting the React frontend with code splitting, lazy loading, and state memoization, keeping data-heavy views fast during live rendering.
  - Gave non-technical EdTech stakeholders self-serve access to complex datasets by building interactive, filterable dashboards end to end, from REST endpoints to responsive UI.
  - Built production microservices and REST APIs that stream, process, and render survey and transactional data into live frontend views.
- **Front-end Developer Intern** | *Bharat Tech* — Oct 2023 – Jan 2024
  India
  - Shipped client-facing pages for EdTech web products by turning design mockups into React and TailwindCSS components wired to backend REST APIs.
  - Implemented responsive layouts in HTML, CSS, and JavaScript across core web applications, making them usable on mobile and desktop.

Projects

- **Daybook** | ***React, TypeScript, TailwindCSS, Firebase, FastAPI, Vitest*** — Mar 2024 – Present
  - **Used by 6 retail shops:** built a multi-tenant accounting and inventory SaaS to replace the paper daybook at my family's hardware business, learning production engineering on a real business with real users.
  - Shipped end-to-end workflows: sales invoicing with PDF generation, purchase bills, customer and supplier ledgers with running balances, payment receipts, and stock tracking with weighted-average costing.
  - Designed role-based access control (Owner, Manager, Counter Staff) scoped per business, with enterprise onboarding and authentication.
  - Migrated the codebase from JavaScript to **TypeScript**, isolating money, ledger, pricing, and stock logic into a pure domain layer covered by **85 unit tests**; now moving the backend from **Firebase** to a Python **FastAPI** service.
- **SplitIt** | ***ReactJS, TypeScript, TailwindCSS, Gemini API, ExpressJS, NodeJS, AWS Lambda*** — Link
  - **Serving 10+ daily active users:** built a full-stack, responsive bill-splitting app where users create groups, upload bills, and fairly divide expenses.
  - **Smart Bill Parsing:** integrated the **Gemini API** to extract line items from uploaded bill images, automating manual data entry.
  - Deployed secure, pay-per-request serverless REST APIs on **AWS Lambda and API Gateway**, keeping hosting costs low while scaling with usage.
  - Designed the relational schema and optimized MySQL queries for user accounts, groups, and split records.

Technical Skills

Programming Languages: Python, TypeScript, JavaScript, Java

Web Development & Frameworks: React, Node.js, Express, TailwindCSS, FastAPI, Django, Spring Boot

Databases: PostgreSQL, MySQL, MongoDB, Firebase (Firestore)

Cloud & DevOps: AWS (Lambda, API Gateway, RDS), Jenkins, Docker, Kubernetes