RAMACHANDRAN S

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PROFESSIONAL SUMMARY

Computer Science undergraduate focused on mobile, backend, and secure systems engineering. Experienced in building full-stack applications across Flutter, FastAPI, and React, backed by PostgreSQL and Supabase. Proven track record of shipping end-to-end systems, including a self-hosted cloud storage platform, a zero-trust reverse-proxy gateway, and multi-tenant SaaS applications.

TECHNICAL SKILLS

Languages & Frameworks: Python, Dart, JavaScript, C++, HTML/CSS | FastAPI, Flutter, React, Next.js, Tailwind CSS
Backend & Security: REST APIs, JWT, RBAC, Zero Trust, Tailscale, API keys, reverse proxy, self-hosted Linux
Mobile & Databases: Supabase, Firebase, Firestore, PostgreSQL, Prisma, SQLite | **Tools & OS:** Git, npm, Linux, macOS

EDUCATION

B.Tech in Computer Science and Engineering, Mobile and Cloud Technologies 2024 - Present
JAIN (Deemed-to-be University), Bengaluru

EXPERIENCE

Software Development Intern June 2026 - July 2026
Digiteck Digital Technologies
- Operated as the sole developer on a client project to build and ship a complete Dairy Farm Management Application (DAIMA) ahead of the scheduled delivery timeline.
- Engineered the cross-platform mobile application using Flutter and Dart, integrating Supabase for authentication, relational data modeling, and real-time backend persistence.

ENGINEERING PROJECTS

AMADRA - Community Social Platform
Flutter, PostgreSQL, FastAPI
- Engineered a cross-platform social app supporting media uploads, user profiles, and interactive feeds across 6 core screens.
- Designed a normalized relational PostgreSQL schema with indexed foreign keys to manage user relationships, post comments, and feed queries.

Secure Cloud-Style Storage Platform
FastAPI, React, Flutter, Tailscale
- Architected a self-hosted private cloud system across React web and Flutter mobile clients for remote file browsing, batch renaming, and directory management over Tailscale VPN.
- Implemented API-key protected FastAPI routes and HTTP range-based chunked video streaming, enabling immediate media playback without full-file downloads.

Zero-Trust Gateway System
Python, FastAPI, JWT, RBAC
- Developed a policy-enforcing API gateway that validates stateless JWT bearer tokens and enforces role-based access control at the network boundary.
- Isolated downstream services behind a reverse proxy so protected backends offload authentication logic and process only verified traffic.

Waypoint - Job Application Tracker
Next.js, Prisma, PostgreSQL
- Built a full-stack SaaS application with complete CRUD workflows, deployed to a custom domain with strict multi-tenant data isolation.
- Integrated a webhook-driven Stripe subscription billing pipeline and session authentication via Clerk and Google OAuth.

GitClone - Version Control Internals
C++, CLI, Linux, Object Database
- Engineered a functional Git implementation from scratch in C++ to model content-addressable storage, directory tree structures, and commit DAG histories.
- Developed a custom object database handling compressed blobs and trees with SHA-1 hashing (Built with AI structural scaffolding assistance).