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PRADHEEP MANIMARAN

SUMMARY

Senior Software Engineer and AI Engineer with 5+ years of experience building SaaS, web, and mobile products with Python, Django, FastAPI, React, Flutter, and PostgreSQL. Heads a 10-member team working across REST APIs, microservices, multi-tenant architecture, Redis, Docker, AWS, and Azure. Builds AI agents and RAG chatbots with OpenAI, has shipped 4 mobile apps, and cut API response time by 60%.

SKILLS

Backend: Python, Django, Django REST Framework, FastAPI, Go, Gin, REST APIs, Microservices

Frontend: React.js, TypeScript, JavaScript, Redux, Context API, HTML5, CSS3, Tailwind CSS, Material UI

Mobile: Flutter, Dart, React Native

Databases: PostgreSQL, MySQL, MongoDB, Redis, Vector Databases, Database Design

Architecture: Multi-tenant SaaS, Multi-branch Systems, System Integration, Performance Optimization

AI and Automation: OpenAI, Azure OpenAI, RAG, Prompt Engineering, AI Agents, Chatbots, MCP, A2A, n8n

Cloud and DevOps: AWS (EC2, S3), Azure, Azure DevOps, Docker, CI/CD, Firebase, Git, GitHub, Claude Code

Testing: Playwright, JMeter, Manual Testing, Test Scenarios, Regression Testing, API Testing

Security: Authentication, Authorization, RBAC, Permissions, Secure APIs

Soft Skills: Team Leadership, Mentoring, Stakeholder Management, Problem Solving, Agile, Scrum, Jira

EXPERIENCE

Aplenix Technologies Private Limited | Sep 2021 – Present

Senior Software Engineer | **AI Engineer**

- Promoted from **Software Tester** (Sep 2021) to **Mobile Application Developer** (Jul 2022), **Full Stack Developer** (Jan 2024), and **Senior Software Engineer** (Jul 2025).
- Lead, mentor, and upskill a **10-member team** building web, mobile, and SaaS products.
- Develop **scalable REST APIs, multi-tenant systems, and RBAC** for customer-facing and internal apps.
- Reduced API response time by **60%** (1 s to 400 ms); optimized Django ORM queries with **Redis caching**.
- Wrote reusable services and utilities that enhance API performance and code reuse across products.
- Build **AI agents and chatbots** with OpenAI/Azure OpenAI, RAG, vector databases, and prompt engineering.
- Created **Python backend services** and REST APIs with FastAPI for production mobile apps.
- Shipped **4 Flutter apps** to Google Play (1 also on iOS) with reusable UI, auth, and state management.
- Contributed to **8 products** across HR, restaurant, healthcare, sports, retail, and matrimony domains.
- Delivered client apps used by **500+ users** across jewelry, car rental, e-commerce, and matrimony.
- Deploy applications on **AWS (EC2, S3) and Azure** using Docker and CI/CD pipelines.
- Drive solution design and code reviews, delivering releases on time with stakeholders in Agile/Scrum.
- Resolved production issues across web and mobile, simplifying user flows and strengthening stability.

PROJECTS

WHRMS - Workforce Management Software

Technologies: React.js, Redux, Django, Python, MySQL, Flutter, n8n, OpenClaw, A2A, MCP

- Architected a **multi-branch platform** for HR, attendance, leave, payroll, and projects, serving **3 companies, 5 branches, and 1,000+ employees**.
- Added an **AI HR chatbot** using A2A and MCP-based orchestration to automate employee queries, approvals, and workflow actions.
- Directed the Django/MySQL backend, React web app, and Flutter mobile app, released on Google Play.

ScanFirst - QR-First Restaurant Ordering & Billing SaaS
Technologies: React.js, Redux, TypeScript, Tailwind CSS, Go, Gin, Microservices, PostgreSQL, Playwright, AWS

- Spearheaded a QR-first SaaS platform live across **20 cafes and restaurants**, covering app-less ordering, digital payments, real-time kitchen tickets, and unified billing.
- Built the **React/Redux** frontend and contributed to **Go/Gin microservices** for orders and payments.
- Engineered real-time workflows linking orders, kitchen, billing, settlement, and multi-outlet tracking.
- Automated end-to-end tests with **Playwright** for critical ordering, payment, and billing flows.

CMCHISTN - Chief Minister's Comprehensive Health Insurance Scheme, Government of Tamil Nadu
Technologies: React.js, Django REST Framework, Python, MySQL

- Developed React UIs and **Django REST Framework** services for beneficiary enrollment, claims, and reporting, handling **1,000+ users per minute**.
- Designed MySQL schemas for beneficiary records, hospital empanelment, claims, and audit logs.
- Secured APIs with **RBAC** and automated claim and reporting workflows.

PitchOne - Cricket Live Scoring App
Technologies: Flutter, Dart, Laravel API, MySQL

- Created a **Flutter** cricket scoring app for match setup, live scoring, and reports, available on Google Play.
- Connected the app to a Laravel/MySQL backend API for match, player, and scoring data.

Jasra Jewellery and Car Rental Management Apps
Technologies: Flutter, Dart, Laravel/PHP APIs, MySQL

- Built mobile workflows for jewelry savings schemes, installments, redemption, and customer ledgers.
- Added car rental vehicle availability, bookings, and driver assignments on Laravel/MySQL APIs.
- Released Jasra Jewellery on **Google Play and the iOS App Store**.

VERI5D - E-commerce Platform
Technologies: React.js, TypeScript, Laravel API integration

- Developed responsive product, cart, and checkout interfaces on Laravel APIs for orders and payments.
- Enhanced frontend performance, state management, and cross-device behavior.

MatchMatrix - Matrimony Platform
Technologies: Flutter, Dart, Node.js/Express APIs, MongoDB

- Built Flutter onboarding, profile, and partner search screens, launched on Google Play.
- Integrated Node.js/Express and MongoDB APIs, refining API consumption and UI responsiveness.

EDUCATION

Bachelor of Computer Applications (BCA) | 2020
RVS College of Arts and Science | Bharathidasan University