

JANAKA PRASAD

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SUMMARY

Full-Stack Software Engineer & AOSP Contributor with a B.Sc. (Hons) in Electronics and IT from the **University of Colombo**. Specialist in **Java (Spring Boot)** and **modern JavaScript frameworks (React, Next.js, NestJS)** with a proven track record of delivering commercial-grade, offline-first systems and contributing to the **Android Open-Source Project (AOSP)**. Experienced in architecting scalable RESTful APIs, implementing **AI-driven forecasting**, and deploying containerized solutions.

WORK EXPERIENCE

Software Engineer | Voxicore

Nov 2025 - Present

- **End-to-End Product Ownership:** Engineered and deployed a commercial **Offline POS System** using **Java** and **JavaFX**, currently operational with 2+ active users.
- **Architecture & Design:** Created a robust **offline-first architecture** with **SQLite** for local data persistence, ensuring 100% uptime and business continuity during network outages.
- **Backend Development:** Built scalable **RESTful APIs** and core business logic using **NestJs** to support multi-branch POS Systems with cloud synchronization.
- **Full-Stack Web Development:** Architected and deployed the company's official website using **Next.js**, while maintaining additional desktop productivity tools like an **Offline Invoice Generator**.
- **Monetization Implementation:** Integrated **license-based activation models** (monthly and lifetime plans) to manage product subscriptions and revenue streams.

Software Engineer Intern (CPG team) – Zebra Technologies

Jan 2025 - Jul 2025

- **AOSP Framework Engineering:** Spearheaded framework-level customization within the **Android Open-Source Project (AOSP)**, resolving **2+ critical system-level bugs** to enhance enterprise-grade device stability for global mobile hardware.
- **Platform Optimization & Debugging:** Collaborated with 10+ senior engineers to resolve critical framework-level issues and implement platform enhancements for mobile computing hardware.
- **Enterprise Collaboration:** Managed complex code workflows using **Gerrit** and **Git** while participating in daily stand-ups to align technical solutions with client requirements.

Web Developer – Raahi (a startup project)

Jul 2025 - Oct 2025

- **Secure Backend Engineering:** Planned and implemented 10+ secure **RESTful APIs** using **NestJS** and **TypeScript** for a tour-ride booking platform. Optimized a secure authentication framework that manages access for **50+ concurrent driver sessions**, maintaining **100% data privacy** and integrity.
- **Financial & Operational Logic:** Enhanced the "Driver Dashboard" backend, integrating real-time **ride booking management** with a custom **financial processing engine** for driver earning summaries and payout tracking.

EDUCATION

B.Sc. (Hons) in Electronics and IT | University of Colombo (2021 - 2025)

Second Class Honors

G.C.E. Advanced Level (Physical Science) | Maliyadeva Adarsha Maha Vidyalaya (2017)

Chemistry B, Combined Mathematics C, Physics C

SKILLS

- **Languages:** Java, JavaScript, TypeScript, Python, C, C++ (for MC programming)
- **Frameworks:** Spring Boot, NestJS, Node.js, React, Next.js, Angular
- **Tools/Databases:** PostgreSQL, MongoDB, SQLite, MySQL, AWS, Docker, Git, Jira

PROJECTS

Cloud-Based SaaS POS System | Next.js, PostgreSQL, Prisma

- **Full-Stack SaaS Development:** Constructed a production-ready, cloud-based Point of Sale (POS) platform featuring real-time billing, inventory tracking, and customer relationship management.
- **Live Deployment & Accessibility:** Deployed the system at pos.voxicore.com, implementing a managed access model for verified commercial users.
- **Managed Subscription Model:** Added a license-based access system requiring manual payment verification for monthly or lifetime service plans.
- **Performance-Optimized APIs:** Developed high-performance RESTful APIs using **Next.js** and **PostgreSQL** to ensure low-latency transaction processing in a cloud environment.

E-Commerce Platform | MERN Stack

- **Production-Grade Delivery:** Constructed and launched a full-stack e-commerce solution for a commercial client at vibewear.lk, managing the entire dev lifecycle from requirement gathering to deployment.
- **Secure Financial Integration:** Implemented a robust payment pipeline by integrating the **Stripe API**, ensuring secure credit card processing and comprehensive transaction management.
- **Architected Backend & Security:** Designed RESTful microservices with **Role-Based Access Control (RBAC)** to manage complex workflows for authentication, order fulfillment, and sensitive data protection.
- **Dynamic Frontend:** Built a responsive, high-performance user interface using **React.js**, focusing on a seamless customer shopping experience and an intuitive administrative dashboard.

Commercial Desktop Invoice Generator | Java, JavaFX, SQLite

- **Offline-First Desktop Solution:** Created a high-performance desktop invoicing application featuring local data persistence via **SQLite**, ensuring 100% operational reliability without internet connectivity.
- **Enterprise Licensing System:** Planned and applied a custom **license-based activation module** to manage software subscriptions and prevent unauthorized distribution.
- **User-Centric Workflow:** Designed and built an intuitive UI with **JavaFX**, incorporating reusable invoice templates that significantly reduced the manual data entry time for end-users.

AgriConnect: AI-Powered Agricultural Marketplace | MERN Stack, Docker

- **Dual-Pricing Market Architecture:** Made a marketplace allowing farmers to list products at admin-defined base prices or custom rates, optimizing market flexibility for buyers and sellers.
- **Agricultural Intelligence:** Developed **AI-based plant diagnostics** via image uploads and an **intelligent price forecasting** module driven by weather and news data.
- **Scalable Production Environment:** Orchestrated the entire platform using **Docker** to ensure consistent, containerized deployments and efficient microservices management.

The Finance Bulletin (Content Management System) | Next.js, PostgreSQL

- **Full-Stack CMS Development:** Engineered a dynamic financial news and blog platform using **Next.js** and **PostgreSQL**, featuring a public-facing reader interface and a secure administrative backend.
- **Advanced Author Dashboard:** Developed a comprehensive dashboard for content creators to draft, edit, and publish articles with real-time markdown support. The site at thefinancebulletin.vercel.app
- **Integrated Data Analytics:** Built an internal analytics module to track article performance, providing authors with insights into reader engagement and traffic trends.
- **Performance-Driven Architecture:** Utilized **Server-Side Rendering (SSR)** and optimized database queries to ensure fast loading times and high SEO scores for content visibility.

EXTRACURRICULAR ACTIVITIES

- IT coordinator | Astronomical Society of University of Colombo (2023 - 2024)
- IT coordinator | Physics Club of University of Colombo (2023 - 2024)
- Marketing director | Leo Club of University of Colombo (2022 - 2023)