JANAKA PRASAD

Software Engineer

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SUMMARY

Software Engineer with a B.Sc. (Hons) in Electronics & IT from the University of Colombo and proven experience in Java-based application development, enterprise systems, and backend design. Proficient in **Java, Spring Boot, JavaFX, RESTful API architecture, and relational databases (PostgreSQL, MySQL, SQLite)** alongside modern frontend frameworks like Next.js and React. Experienced in AOSP framework-level development using Java, agile software development, and building high-performance offline and web applications. Strong focus on writing maintainable OOP code, optimizing database queries, and managing end-to-end application lifecycles.

WORK EXPERIENCE

Software Engineer Intern (CPG team) – Zebra Technologies **Jan 2025 - Jul 2025**

- **Java & Android OS Engineering:** Customized core Android Open-Source Project (AOSP) framework components in Java for enterprise handheld devices, diagnosing and resolving high-priority system level bugs including screen rotation lifecycle issues.
- **Native Application Development:** Designed and implemented a native Java/Android application to track, calculate, and display real-time hardware telemetry and battery diagnostics across 5+ core system metrics.
- **Enterprise Agile Workflows:** Collaborated with a team of 10+ senior engineers across 3 cross-functional units in daily Agile/Scrum ceremonies to unblock critical technical path items.
- **Version Control & Quality:** Managed source control and code reviews using Git and Gerrit, maintaining code standards across multiple parallel Jira sprints.

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

CERTIFICATIONS

- **Introduction to Cybersecurity** – Cisco Networking Academy

PROJECTS

Hybrid POS & Cloud Management System (Desktop & Web)

Java, Spring Boot, JavaFX, SQLite, React.js, PostgreSQL, REST APIs, WebSocket

- **Offline POS System (Completed):** Engineered a high-performance JavaFX and SQLite desktop application currently running 100% offline, featuring local billing, receipt processing, inventory management, and zero-latency transaction handling.
- **Software Licensing & Protection (Completed):** Built a custom hardware-bound license activation engine in Java to manage subscription tiers (monthly/lifetime) and prevent unauthorized device distribution.
- **Spring Boot Cloud Backend (In Development):** Building a centralized Spring Boot REST API and PostgreSQL database layer to process automated multi-branch transaction synchronization whenever internet connectivity is available.
- **Multi-Branch Admin Web Dashboard (In Development):** Developing a React.js control panel consuming Spring Boot services to give store owners remote visibility into real-time sales metrics, inventory levels, and active POS terminals.

Commercial Desktop Invoice Generator

Java, JavaFX, SQLite

- **Core Invoice Generator App:** Built an offline-first desktop invoice and billing management platform currently utilized by 3+ active commercial clients with 100% operational uptime.
- **Features:** Client directory management, product/service catalog indexing, dynamic tax/discount calculations, auto-generated invoice numbering, and instant printable PDF output.
- **Database & Data Layer:** Designed relational database schemas in **SQLite** and built transactional data access objects (DAO pattern) to store customer histories and daily billing entries securely on local storage.
- **Software Protection:** Planned and implemented a custom license-based activation module to manage software subscriptions and prevent unauthorized distribution.

The Finance Bulletin (Content Management System)

Next.js, Node.js/Express, PostgreSQL, SSR, REST APIs, Tailwind CSS

- **Performance & SEO:** Engineered a dynamic financial news CMS (**thefinancebulletin.com**) using **Next.js** and **PostgreSQL**, utilizing Server-Side Rendering (SSR) to maximize search engine visibility and load speeds.
- **Data Intelligence:** Developed a secure administrative backend and author dashboard that tracks real-time reader engagement and traffic trends using custom-built **Integrated Data Analytics.**

Healthcare Service Platform (Carelix Nursing)

Next.js, Node.js

- **Modern Business Launch:** Designed and launched a professional healthcare website (**carelixnursing.com**) to help a Malaysian nursing service reach more families and manage new patient inquiries.
- **Smart Inquiry System:** Built a simple, reliable system that instantly sends website bookings directly to the owner's email and WhatsApp, making it easy for the business to respond to clients immediately.

E-Commerce Platform

- **Secure Financials:** Launched a production-grade fashion store (vibewear.lk) using the **MERN Stack**, implementing a robust payment pipeline via the **Stripe API** for secure 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.

EXTRACURRICULAR & LEADERSHIP

- 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)