Heshan Sidantha

Software Engineer

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Summary

Final-year Computer Engineering undergraduate and Software Engineering Intern with hands-on experience building RESTful APIs and microservices using Java, Spring Boot, PostgreSQL, Kafka, Docker and AWS. Contributed to a multi-tenant enterprise Applicant Tracking System in an Agile team environment. Seeking an entry-level Software Engineer role.

Education

University of Peradeniya 2022 – 2026
B.Sc. Engineering (Hons.) in Computer Engineering *Sri Lanka*

Ruhunu Vijayaba College 2007 – 2020
G.C.E. Advanced Level – Physical Science stream *Sri Lanka*

Technical Skills

- **Languages:** Java, TypeScript, JavaScript, SQL, Python, C, C++
- **Frameworks & Libraries:** Next.js, React, Flutter
- **Backend & Technology :** Spring Boot, RESTful APIs, Microservices, Node.js
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis (NoSQL), Prisma ORM
- **Cloud & DevOps:** AWS (SES, EC2, S3), Azure , Docker , CI/CD , Linux , Git , GitHub
- **Messaging & Streaming:** Apache Kafka
- **Practices:** Agile/Scrum , Unit Testing , Code Reviews , SQL Optimization

Professional Experience

Software Engineering Intern Apr 2026 – Oct 2026
FACTn Software (Pvt) Ltd, Nugegoda – CV Collector project

- Developed features for a multi-tenant Applicant Tracking System using Next.js, React, and TypeScript.
- Migrated the data layer from Azure Table Storage to PostgreSQL using Prisma ORM, including database schema design and repository development.
- Developed an asynchronous Notification Service using Kafka, Redis, AWS SES, and Firebase, and containerised the application using Docker.

Casual Instructor Nov 2024 – Mar 2025
Department of Computer Engineering, University of Peradeniya *Sri Lanka*

- Assisted students with C programming and Digital Design laboratory exercises.
- Supported students in debugging C programs and solving practical programming problems.

Projects

Neuromorphic Smart Sensor for Autonomous Underwater Vehicles 2025 – 2026
University of Peradeniya *Sri Lanka*

- Developed a power-efficient underwater sensing and localisation system using Spiking Neural Networks on embedded platforms.
- Implemented hybrid localisation combining dead reckoning, surface GPS support and acoustic measurements.
- Optimised sensor-fusion algorithms for autonomous, low-power, long-duration operation.
- **Tools:** Python, C, C++, Jetson Nano , ROS 2, Gazebo

Secure X Smart Locker System 2024 – 2025
University of Peradeniya *Sri Lanka*

- Developed an IoT-based smart locker system with real-time reservation, availability tracking, and centralized monitoring..
- Integrated fingerprint authentication with ESP32-based embedded hardware for physical access control.
- Developed responsive web and mobile dashboards for locker management and monitoring.
- **Tools:** ESP32, React, Flutter, Spring Boot, AWS

FoodBuddy – Food Waste Reduction Platform 2024
University of Peradeniya *Sri Lanka*

- Developed a cross-platform platform connecting restaurants with nearby customers to distribute surplus food.
- Developed responsive web and mobile interfaces with authentication and real-time product availability.
- **Tools:** Flutter, React, Spring Boot, AWS, MySQL

Leadership & Community Engagement

Associate Batch Member, Hackers' Club 2025 – 2026
University of Peradeniya *Sri Lanka*

- Participated in technical workshops, coding sessions and peer-learning activities.
- Contributed to collaborative technical activities and competitions.

Associate Batch Member, EngEx Subcommittee 2025
Faculty of Engineering, University of Peradeniya *Sri Lanka*

- Co-organised EngEx 2025, the largest engineering exhibition in Sri Lanka.
- Led the University of Peradeniya outreach program, engaging school students and the public.

References

Prof. Roshan G. Ragel, Professor, Department of Computer Engineering, University of Peradeniya | roshanr@eng.pdn.ac.lk | +94 81 239 3913

Prof. Kamalanath Samarakoon, Professor, Department of Computer Engineering, University of Peradeniya | kamalanath@eng.pdn.ac.lk | +94 71 227 7994