HANSANA RANAWEERA

Software Engineer | AI Builder | DevOps & Reliability | Innovator

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PROFILE

Full-stack software engineer with hands-on fintech experience across Java/Dropwizard services, Angular applications, Oracle databases and business-critical production workflows. An award-winning early innovator who also explores computer vision, AI-powered products, VR, robotics and IoT. Interested in technically ambitious software, applied AI and reliability engineering opportunities.

PROFESSIONAL EXPERIENCE

Full Stack Engineer - DirectFN Ltd.

May 2023 - Present | Financial technology

Engineering and supporting financial applications and brokerage workflows. Java/Dropwizard, Angular, Oracle/SQL, integrations, reports, deployments, production operations, incident diagnosis and automation tooling.

Software Engineer Intern - SimCentric Sri Lanka

Nov 2022 - Apr 2023 | VR simulation

C++ and Unreal Engine software engineering experience in high-fidelity simulation and immersive training.

React Industrial Training - SoftVessel

2021 | Web applications

React, TypeScript, Redux, UX/SCSS, GraphQL and collaborative frontend development practices.

Kids' Robotics Lecturer - Sri Lanka Institute of Robotics

2019 - 2022 | Education

Teaching robotics and practical computing to young learners.

JavaScript Developer Intern - Sri Lanka Institute of Robotics

2019 - 2020 | Web engineering

Software development and web interface work in a robotics-focused environment.

ENGINEERING TOOLKIT

Languages and frameworks: Java, JavaScript, TypeScript, Python, C++, Dart, Angular, React, Dropwizard, Spring Boot, Node.js, Express, Flutter.

Systems and data: Oracle Database, PL/SQL, MySQL, MongoDB, Linux/RHEL, ActiveMQ, RabbitMQ, Docker, Jenkins, GitHub Actions, SSH, Git.

AI, immersive and physical systems: PyTorch experiments, Scikit-learn, Pandas, computer vision, Unreal Engine, Three.js, Unity, ESP32, Arduino and sensors.

EDUCATION

BSc in Computer Science - University of Colombo School of Computing (2020-2023). GPA: 3.33/4.00 as recorded in the uploaded résumé.

CMJD Java Development - IJSE Institute of Software Engineering (2019).

RECOGNITION & SELECTED WORK

Résumé-grounded accomplishments and projects.

AWARDS AND ACHIEVEMENTS

- 2014 - Sri Lanka's Youngest Computer Scientist of the Year; Best Project of the Year.
- 2015 - SLIIT CODEFEST 1st Runners-Up.
- 2015 - Represented Sri Lanka at the Asia Pacific ICT Alliance Awards (APICTA).
- 2020 - Escape the Loop hackathon champion (Mozilla).
- 2022 - National ICT Awards (NBQSA) finalist.
- 2018 - Matara District Rank 1 in the G.C.E. Advanced Level examination.

SELECTED ENGINEERING PROJECTS

Financial Trading Systems. Enterprise software and production engineering across brokerage workflows using Java, Angular and Oracle.

NTP Operations Control. Personal prototype exploring remote service controls, log navigation, safe release processes and workflow automation.

AI Virtual Try-On. Computer-vision experiment for garment visualization using Python, PyTorch and model-inference workflows.

Smart Hydroponic Tower. ESP32-based IoT hardware prototype for vertical growing, environmental sensing and light/water control.

Mawthurula AR. Web/mobile and augmented reality pregnancy education; a 2022 NBQSA finalist project.

CyboSchool. Three.js and machine-learning-based interactive education experiment; Escape the Loop champion project.

Suwasewana. Civic-health information portal for communication between public-health officers and citizens.

SAF-TAC VR Training. SimCentric internship project context involving immersive VR simulation engineering.

SELECTED CERTIFICATES

- Introduction to Software Product Management - University of Alberta / Coursera (2022).
- Programming for Everybody (Getting Started with Python) - Coursera (2021).
- SQL - SoloLearn (2021).
- React & Redux - SoloLearn (2022).
- Responsive Web Design - SoloLearn (2022).

SERVICE AND REFERENCES

University volunteer mathematics outreach for rural schools in Polonnaruwa and Badulla. Professional and academic references are available on request.