

AVANTHA SANDARUWAN CHANDRASENA

Software Engineer | Full-Stack Development | TypeScript, React, Node.js

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PROFESSIONAL SUMMARY

Software Engineer with 5+ years of industry experience designing, developing, and delivering web, mobile, and enterprise applications across e-commerce, logistics, and ERP environments. Strong expertise in TypeScript, React, React Native, Node.js, Next.js, REST APIs, and SQL, with additional experience in Java, Flutter, and cloud technologies. Experienced in full-stack development, system design, testing, debugging, performance optimisation, code reviews, and technical leadership.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, C#, PL/SQL, Python

Frontend: React, Next.js

Mobile: React Native, Flutter

Backend: Node.js, Express.js, REST APIs

Databases: PostgreSQL, MongoDB, MySQL, Oracle, Firebase

Cloud & DevOps: AWS, GCP, Docker, CI/CD, Jenkins

Practices: System Design, Testing, Debugging, Code Review, Agile

PROFESSIONAL EXPERIENCE

Lead Software Engineer (Full Stack) — KingIT Solutions | Oct 2024 – Feb 2025

- Developed full-stack e-commerce and logistics platforms using React, Node.js, TypeScript, and PostgreSQL.
- Improved API response performance by approximately 40% through Redis caching and backend optimisation.
- Implemented CI/CD pipelines using AWS and Docker to improve deployment efficiency.
- Developed and integrated backend APIs and optimised application performance for reliability.
- Collaborated with cross-functional teams in an Agile development environment.

Reason for leaving: Pursued higher studies.

Lead Software Engineer (Full Stack) – Contract — Crypto Canary Network | Jan 2024 – Sep 2024

- Built and enhanced full-stack features using TypeScript, React, React Native, and Node.js.
- Integrated Web3 wallets, Stripe, and MoonPay services.
- Developed REST APIs and contributed to system performance improvements.
- Participated in code reviews, debugging, testing, and deployment activities.
- Worked in an Agile environment using Jira for task management.

Software Engineer / Technical Lead — Dev4s (PVT) Ltd | Feb 2023 – Jan 2024

- Developed web and mobile applications using React, React Native, and Node.js.
- Implemented unit testing and automation to improve application reliability.
- Supported cloud deployment and infrastructure setup using GCP.
- Collaborated with team members to deliver maintainable software solutions.

Software Engineer — IFS R&D International | Jul 2022 – Feb 2023

- Developed and maintained enterprise ERP software for the aerospace domain using Java, Oracle SQL, and PL/SQL.
- Implemented application features and resolved defects in large-scale enterprise systems.
- Contributed to automated testing and CI/CD pipelines using Jenkins.

Associate Software Engineer (Contract) — IFS R&D International | Jan 2020 – Jul 2022

- Developed software features using C#, PL/SQL, and Oracle databases.
- Investigated and resolved defects and supported maintenance of enterprise applications.
- Participated in Agile development cycles and software delivery activities.

SELECTED PROJECTS

IHI – ADHD Detection Mobile Application — IEEE Publication | <https://ieeexplore.ieee.org/document/9992930>

- Developed an Android mobile application using Java for ADHD detection and behavioural analysis.
- Implemented data processing and analysis features and conducted testing and validation.
- Research published at the IEEE ICITR conference: ieeexplore.ieee.org/document/9992930

Full-Stack Web Application — MERN Stack | <https://github.com/it19075136/ICAF-Final>

- Built a full-stack web application using MongoDB, Express.js, React, and Node.js.
- Implemented JWT authentication, password hashing, media upload with Cloudinary/Multer, and email notifications.
- Developed automated tests using Jest and Supertest and deployed the application using Vercel.
- GitHub: github.com/it19075136/ICAF-Final

Fuel Management System — Mobile + Backend | <https://github.com/it19075136/fuel-mgmt-backend> , <https://github.com/it19075136/fuel-mgmt-app-frontend>

- Developed an Android mobile application using Java with a C# backend.
- Built modules for fuel station, queue, and user management, including real-time queue handling.
- Developed RESTful APIs supporting mobile application functionality.

EDUCATION

Master of Professional Information Technology — Charles Sturt University | Feb 2025 – Oct 2026

BSc (Hons) in Information Technology (Upper Second Class) — Sri Lanka Institute of Information Technology | 2019 – 2023

AWARDS & ACHIEVEMENTS

- Executive Dean's Award – 2025, Master of Professional Information Technology
- Dean's List – 2019, BSc (Hons) in Information Technology
- IEEE Research Publication – ADHD Detection Application (<https://ieeexplore.ieee.org/document/9992930>)