AVANTHA CHANDRASENA

SOFTWARE ENGINEER | NODE.JS | TYPESCRIPT | REACT | AWS | DEVOPS

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PROFESSIONAL SUMMARY

Software engineer with about five years of experience building web apps, APIs and enterprise software. I have worked with TypeScript, React, Node.js and cloud services (AWS, GCP), and I have led small teams on full-stack projects. I started my career at IFS on aerospace ERP software (Java, Oracle, PL/SQL), including a legacy-to-cloud migration. I have just completed a Master of Professional Information Technology at Charles Sturt University with Executive Dean's Awards in 2025 and 2026. My research looked at Zero Trust Architecture and lateral movement in multi-cloud networks. I am looking for a software engineering role in Sydney.

TECHNICAL SKILLS

- **Languages**: TypeScript, JavaScript, Java, C#, Python, PL/SQL
- **Backend and APIs**: Node.js, Express.js, REST APIs, third-party integrations (Stripe, SendGrid, MoonPay, Web3 wallets)
- **Frontend and mobile**: React, Next.js, Material UI, React Native, Flutter, Android (Java)
- **Cloud and DevOps**: AWS, GCP, Docker, CI/CD, Jenkins
- **Databases**: PostgreSQL, MongoDB, MySQL, Oracle, Firebase
- **Testing**: Jest, Supertest, unit and integration testing
- **Security and networking**: Zero Trust Architecture, multi-cloud network segmentation concepts
- **Ways of working**: Agile, code review, system design, debugging, performance tuning, technical leadership
- **AI-assisted development**: GitHub Copilot Agent, ChatGPT, Claude

PROFESSIONAL EXPERIENCE

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

- Developed and maintained full-stack functionality for a logistics CRM and calculation platform using React, TypeScript, Node.js, and Express.
- Built and enhanced REST APIs and backend functionality, integrating application logic with database services.
- Worked on Stripe subscription management and related application settings.
- Integrated third-party services, including SendGrid for email functionality.
- Troubleshot application issues and improved functionality across frontend and backend components.
- Collaborated with cross-functional teams in an Agile software development environment.
- Contributed to deployment workflows using Docker, CI/CD practices, and cloud hosting services.

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.
- Developed REST APIs and contributed to application performance improvements.
- Integrated third-party services including Web3 wallets, Stripe and MoonPay.
- Participated in code reviews, debugging, software testing and deployment activities.
- Worked in an Agile environment using Jira for task management and delivery.

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 test automation to improve application reliability.
- Supported cloud deployment and infrastructure setup using GCP.
- Collaborated with team members to deliver maintainable software solutions through Agile development practices.

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.
- Contributed to a data migration project involving the transition from a legacy Java EE platform to an IFS Cloud application.
- Worked on migration activities for an aircraft parts and equipment management system.
- Gained experience working with legacy enterprise applications and cloud-based application environments.
- 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.

Education

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

• Executive Dean's Award in 2025 and 2026.
• Research project: Testing the Effectiveness of Zero Trust Architecture in Reducing Lateral Movement in Multi-Cloud Networks. Wrote the research proposal, created an A1 research poster and presented at the mini-conference.

BSc (Hons) in Information Technology (Upper Second Class), Sri Lanka Institute of Information Technology 2019 – 2022 | Dean's List 2019

SELECTED PROJECTS

• ADHD detection mobile app (IEEE publication) – Android app in Java for ADHD detection and behaviour analysis, with data processing, testing and validation. Published at IEEE ICITR: ieeexplore.ieee.org/document/9992930

• Full-stack MERN web application – JWT authentication, password hashing, media upload (Cloudinary/Multer), email notifications, Jest and Supertest tests, deployed on Vercel. github.com/it19075136/ICAF-Final

• Fuel management system – Android app (Java) with a C# backend and REST APIs, including fuel station, queue and user management with real-time queue handling. github.com/it19075136/fuel-mgmt-backend

AWARDS & ACHIEVEMENTS

• Executive Dean's Award – 2026, Master of Professional Information Technology
• Executive Dean's Award – 2025, Master of Professional Information Technology
• Dean’s List – 2019, Bachelor of Science (Hons) in Information Technology
• IEEE Research Publication – ADHD Detection Application

Referees

Available upon request.