DANANJAYA POLWATTAGE

Senior Full-Stack Engineer · React · Java Spring Boot · IFS Cloud · AI/RAG

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SUMMARY

Senior Full-Stack Engineer with 6 years of production experience building React and Java Spring Boot applications across banking, ERP, and insurance domains, a certified IFS Cloud developer, and now building AI-powered document intelligence with Python and RAG pipelines.

EXPERIENCE

Senior Full-Stack Engineer, React & Java · **Bluechip Technical Services Pvt Ltd** — Oct 2024 to Present

Client: Commercial Bank of Ceylon · ~5,500 users · 250 TPS

Led the React.js frontend for the bank's enterprise document management platform, applied WCAG accessibility standards throughout, cut production bugs 20% with Jest and Cypress coverage, and architected a FastAPI-based RAG add-on for AI-powered document search, Q&A, and summarization.

Stack: React, Spring Boot, AWS, Jest, Cypress, Python, FastAPI, RAG

Software Engineer, Full Stack & Backend · **IFS R&D International** — Oct 2021 to Oct 2024

Clients: North America (remote) · ~1,000,000 users · 300 TPS

Built React and Spring Boot ERP modules serving 1,000,000+ users at 300 transactions per second, maintained 95% SLA compliance, and code-reviewed across a 50-engineer team. Earned IFS Certified Practitioner credentials in IFS Cloud web development and technical consulting.

Stack: IFS Cloud, React, Spring Boot, Oracle PL/SQL, Microservices · **Case study:** dananjayapolwattage.com/work/ifs-cloud-erp

Trainee Full-Stack Engineer · **Ceylinco General Insurance Ltd** — Jun 2020 to Sep 2021

~3,500 users · insurance claims workflows

Built responsive React.js frontends integrated with Node.js and Java backends across insurance claims and management workflows.

Stack: React, Node.js, Java, ASP.NET

CERTIFICATIONS

- **IFS Certified Practitioner: Technical Consultant (IFS Cloud)** · IFS, Feb 2024 · verify on Credly
- **IFS Certified Practitioner: IFS Cloud Web Developer** · IFS, Dec 2023 · verify on Credly

EDUCATION

Bachelor of Science in Computing · **Curtin University, Australia** — Sep 2016 to 2019

SKILLS

Frontend	React, Redux Toolkit, TypeScript, Jest, Cypress, WCAG
Backend	Java, Spring Boot, Node.js, Microservices, REST APIs
IFS Cloud & ERP	IFS Cloud, IFS Cloud Web Development, IFS Business Logic Development, IFS Lobby, IFS Custom Objects
Cloud & DevOps	AWS (EC2, S3, Lambda), Docker, CI/CD, Prometheus, Grafana
Databases	PostgreSQL, MySQL, Oracle PL/SQL, MongoDB
AI & Data	Python, FastAPI, RAG Pipelines, pgvector, Hugging Face Transformers

SELECTED PROJECTS

PitStat · A Formula 1 tracker covering every season since 1950, with no backend of its own.

React 19, TypeScript, TanStack Query, shadcn/ui, Tailwind CSS, Vite, PWA, Vitest, Cloudflare Workers · dananjayapolwattage.com/work/pitstat

Deskmate · A tiny 8-bit you that lives on your desktop: walks, naps, dances, and sulks when ignored.

Tauri 2, Rust, JavaScript, MediaPipe, QML, GitHub Actions · dananjayapolwattage.com/work/deskmate

IntelliQuiz · A quiz platform for O-Level ICT students, and the teacher who runs the room.

Java 21, Spring Boot, Spring Security, PostgreSQL, JWT, React 19, MUI · dananjayapolwattage.com/work/intelliquiz

Lakmal Gardens · A marketing site for a landscaping business, content-driven and CMS-free.

Astro, React, Tailwind CSS, Cloudflare R2 · dananjayapolwattage.com/work/lakmal-gardens

Plant Shop · An idle greenhouse game: grow, sell, expand, repeat.

React, react-three-fiber, Three.js, Zustand · dananjayapolwattage.com/work/plant-shop

Plant Species Studio · A field-catalogue for plant species: fast search, zero backend.

React, TypeScript, Vite · dananjayapolwattage.com/work/plant-species-studio

Document Intelligence Service · A RAG pipeline that turns a document archive into an AI-queryable knowledge base.

Python, FastAPI, PostgreSQL, pgvector, Redis, PyMuPDF, Tesseract OCR, SentenceTransformers, Hugging Face Transformers · dananjayapolwattage.com/work/document-intelligence