Jason Immanuel

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AI-Native Senior Software Engineer | Claude Code, MCP, Java, Angular, React, Python

Senior Associate Software Engineer with 5+ years across financial markets, logistics and web. Builds and runs production systems with Claude Code and MCP daily, including a custom MCP server for Macquarie's Juno system.

AI Engineering

- Built a custom MCP server connecting Claude to Macquarie's applications and databases.
- Automated health checks, templates and manual touch points for Market Services, saving over 200 combined hours.
- Built Claude Code skills for GitHub Actions migrations and automated health check systems.
- Part of the initial team within the division to utilise Claude Mythos for vulnerability detection within Macquarie Bank.
- Rely on Jira, GitHub and Postgres MCP servers in day-to-day engineering work.

Experience

Senior Associate - Software Engineer **February 2025 - Present**
Macquarie Group – *Commodities & Global Markets: Market Services* *Sydney, NSW*

- Developed enterprise-grade, scalable web applications using Java, Angular and AWS for high-volume post-trade workloads, handling hundreds of thousands of transactions daily.
- Integrated SmartCOMM (SaaS) as a Java microservice to centralise document templates and regulatory communications, saving over 300 business hours per month globally.
- Standardised exception handling with Kafka event streaming and Docker, improving resilience and traceability.
- Led the iframe to microfrontend migration, building Angular services with JWT authentication.

Frontend Engineer **June 2023 - February 2025**
Web Bird Digital – *Web Apps and Sites Team* *Sydney, NSW*

- Built bespoke React, Node.js and PHP applications and websites for clients in finance, law and consulting.
- Defined requirements with business owners and stakeholders, strengthening client relationships.

Software Engineer & Team Scrum Master **April 2021 - June 2023**
MRL Global – *Technology in Logistics Division* *Sydney, NSW*

- Led a team of junior developers as Technical Scrum Master, and ran pair programming sessions to build team skills.
- Built a responsive Angular and MySQL progressive web app (PWA) for warehouse managers.
- Automated API and UI testing in in-house scripts, which cut CI/CD times by 70%.
- Redesigned and deployed a Java middleware integrating Shopify and MRL's APIs, cutting load times by over 85%.

Personal Projects

Real Time AI Translation TTS Application | Tensorflow, Python, Fast API, Kokoro TTS **October 2025 - Present**

- Built a real-time Indonesian ↔ English speech translation web app with live transcription and spoken output.
- Developed Python FastAPI services for translation and Kokoro neural TTS, with no paid APIs or rate limits.
- Built an AI queue that keeps translated speech in order, with no skipped translations or overlapping audio.

MySubStats Aus Suburb Statistics | React, NextJS, Python, EChart, AG Grid **November 2023 - June 2025**

- Achieved Top 5 finalist in 2024 UTS IBISWorld Competition, recognised for innovation excellence.
- Cleaned 650 million+ rows of ABS data with Python and SQL and built the app with React, NextJS and Java.

Education

University of Technology Sydney (UTS) **First Class Honours**
Bachelor of Engineering Majoring in Software (Honours) *Sydney, NSW*

Technical Skills

AI & Dev Tools: Claude Code, MCP, Claude Mythos, Copilot, IntelliJ, Maven, Docker, Grafana, AKHQ, JFrog, Splunk
Languages: Java, PHP, C#, Node.js, Python, SQL (Postgres), JavaScript, TypeScript, C++, HTML/CSS
Frameworks: Angular, React, VueJS, NextJS, .NET Core, Laravel, Ionic, MVC, Microfrontend Architecture
Libraries: EChart, AG Grid, Tailwind CSS, ExtJS, Apache Kafka, AWS (EC2, S3, EKS), SmartCOMM, JWT Tokens