

Jason Immanuel

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Experience

Senior Associate - Software Engineer

February 2025 - Present

Macquarie Group – *Commodities & Global Markets Post Trade Operations*

Sydney, NSW

- Developed enterprise-grade, scalable web applications using Java, Angular, and AWS, engineered to handle high-frequency, high-volume workloads with thousands of transactions daily across the post-trade lifecycle
- Integrated SmartCOMM (SaaS) as a Java microservice to centralise document templates and streamline regulatory communications, leading to over 300 business hours per month saved from manual draft generation globally
- Standardised exception handling with real-time event streaming and asynchronous services built on Apache Kafka and Docker, enhancing system resilience and traceability.
- Led upgrades from iframe to microfrontend architecture, building key Angular-based services with JWT authentication for verification and document generation while supporting production release management
- Adopted AI tools such as Claude Code and Copilot to automate and streamline repetitive BAU and support tasks

Frontend Engineer

June 2023 - February 2025

Web Bird Digital – *Web Apps and Sites Team*

Sydney, NSW

- Leveraged expertise in React, NodeJS, and PHP to architect and refine bespoke applications and websites, leading initiatives to enhance user interfaces and elevate the user experience.
- Directed collaborative efforts with stakeholders in the finance, law, and consulting sectors to delineate project requirements, offering insights and leveraging creative problem-solving to surpass client expectations.
- Spearheaded consultations with business owners and clients to clarify project components and product functionalities, nurturing robust client relations and boosting customer satisfaction metrics.

Software Engineer & Team Scrum Master

April 2021 - June 2023

MRL Global – *Technology in Logistics Division*

Sydney, NSW

- Managed a team of junior developers throughout software projects as a Technical Scrum Master, fostering alignment, problem-solving, and collaboration. Actively engaged in peer programming to enhance team skills.
- Developed a responsive progressive web app (PWA) for warehouse managers using Angular, MySQL, enhancing productivity of operations, business stakeholders and user experience.
- Expedited backend and frontend development by automating API/UI testing within in-house programs and scripts, optimising application quality and speeding up CI/CD process times by 70%.
- Redesigned, developed, and deployed a Middleware Java application from scratch, integrating Shopify and MRL's proprietary APIs to boost operational efficiency and reduce load times by over 85%.

Personal Projects

[MySubStats Aus Suburb Statistics](#) | React, NextJS, Python, EChart, AG Grid

November 2023 - Present

- Achieved Top 5 finalist in 2024 UTS IBISWorld Competition, recognised for innovation excellence.
- Translated and refined over 650 million rows of raw data packs from ABS using Python and SQL to usable, clean data
- Designed and developed a web application with React, NextJS, while using Java as a REST API to deliver data

[AI Object Detection Model](#) | Tensorflow, Python, Javascript

May 2023 - August 2023

- Developed a web app with TensorFlow.js for body, object, and text detection, enhancing user interaction through AI.
- Integrated Python and JavaScript to streamline AI functionalities within a user-friendly interface.
- Advanced personal expertise in AI and machine learning through practical application development.

Education

University of Technology Sydney (UTS)

First Class Honours

Bachelor of Engineering Majoring in Software (Honours)

Sydney, NSW

Technical Skills

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

Dev & AI Tools: Claude Code & MCP, Copilot, IntelliJ, Maven, AWS CLI, Kafka CLI, Docker, Grafana, AKHQ, Jfrog Splunk

Libraries: EChart, AG Grid, Tailwind CSS, ExtJS, Apache Kafka, AWS (EC2, S3, EKS), SmartCOMM, JWT Tokens