

Vincent Wong

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Experience

Atlassian (Automation Platform) | Java, Spring, TypeScript, AWS

Mid-Level Software Engineer

Apr 2024 - Present

- Unlocked horizontal scaling by developing a framework to manage and provision Automation cells.
- Implemented FIPS 140-3 compliance by leading the migration to private Application Load Balancers.
- Reduced cold start times of Lambda functions by 15% after measuring and optimising JVM settings.
- Simplified Lambda deployments by designing a portable Docker image according to 12FA principles.
- Mentored 2 graduate engineers on Automation Platform's AWS architecture and ongoing scale work.

Graduate Software Engineer

Jan 2023 - Mar 2024

- Reduced rollback time to under 10 minutes by automating risky operations with the Java AWS SDK.
- Enhanced email sending for 50,000 customers by implementing a tenanted email sending action.
- Supported enterprise customer workloads by implementing an asynchronous rule export service.
- Attained 1st place in the company hackathon for DevEx by categorising work using Automation.

IMC Trading | Java, Python, Pandas

Intern Software Engineer

Dec 2021 - Feb 2022

- Enhanced knowledge for 1,500 listings by creating a backtesting framework in Java and Python.
- Implemented an autotrader in Python with WebSocket and HTTPX for a simulated exchange exercise.

Ventia | PL/SQL, Python, JavaScript

Developer (Part-Time)

Sep 2019 - Nov 2021

- Automated entry for 50 daily work orders by writing a web scraper using Python and Selenium.
- Streamlined rates card entry process for 40,000 items by creating a web importer in JavaScript.

Education

University of New South Wales

B.S. Computer Science, B.S. Mathematics (High Distinction WAM)

Feb 2019 - Dec 2022

- Highly commended on the 2020 Engineering Dean's List for strong undergraduate performance.

Projects

CubeSim - Rubik's Cube Solver | Rust, Criterion, FlameGraph

github.com/V-Wong/CubeSimRS

- Released a 3x3 Rubik's Cube simulator and solver library on the official Rust package registry.
- Optimised data structures by benchmarking and profiling with Criterion and FlameGraph.

ToyWebRs - Web Framework | Rust

github.com/V-Wong/toywebrs

- Developed a zero-dependency HTTP server and web framework on top of TCP connections.
- Implemented concurrent execution by creating a multithreaded job queue using channels.

Huffman Visualiser | TypeScript, HTML5 Canvas

github.com/V-Wong/Huffman-Encoding

- Developed a web app using TypeScript and HTML5 Canvas to visualise the Huffman algorithm.
- Showcased by the lecturer to 200 students in MATH3411, a third year mathematics course.

LinkUp - Events Tracker | JavaScript, React, Python, AWS

linkupevents.com

- Collaborated with a team of 5 students to create a web platform for university events.
- Maintained a monthly user base of 700 UNSW students from late 2019 to early 2020.