

Campbell Mercer-Butcher

Senior software engineer

Sydney, Australia

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Work History

Ailo - Senior software engineer (Tech lead) (Full-time, 08/22 – current)

Typescript, React Native, NestJS, GraphQL, AWS

Tech lead of inspections and work flows at Ailo, a scaling property management software platform.

- Lead development of new products and features across web and mobile.
- Conduct architectural and technical discovery of new features.
- Guide engineers to support their career development and goal achievement.
- Optimise team software processes to maximize both quality and productivity outcomes.
- Engage with users and gather analytics to inform product improvements and feature enhancements.

Macquarie Group – Senior Associate Software Engineer (Full-time, 02/21 – 07/22)

Java, Spring Boot, Typescript, Angular, AWS

Delivered end-to-end features and solutions for Digital Portfolio Manager, a portal for financial advisers to generate trading advice documents.

- Updated major versions of technology across Java microservices including reactive rewrite.
- Migrated angular component library and CSS framework, to align with the wider business.
- Partook in AWS cloud migration with CloudFormation IaC, increasing reliability.
- Met with clients, resolving issues and exploring new features.
- Performed releases and provided production support.
- Mentored and onboarded new team members.

Epex – Development Team Lead and Director (Independent, 01/19 – 02/21)

Typescript, Express, React, PostgreSQL, Redis

Led development of an online residential property exchange, overseeing architectural design, project delivery, and stakeholder communication. Demonstrated strong technical proficiency in resolving complex challenges, including robust task scheduling, secure credit card payments, and seamless integration of external APIs.

Macquarie Group – Associate Software Engineer (Internship, 11/19 – 02/20)

Java, Spring Boot, Solace, ActiveMQ, Openshift

Developed and deployed microservices and gateways crucial to a trading transformation initiative during my internship. Became the team's primary expert in key Spring technologies and message queue integration by the end of the program.

MetaSwitch – Software Engineer Intern (Internship, 11/18 – 02/19)

Python, Java, Groovy, InfluxDB, Grafana, Docker

At MetaSwitch, an international telecommunications software company, I developed software to ingest, manage, and visualize telecommunications statistics. Leveraging Grafana, I ensured that all data was accessible and presented clearly and reliably.

University of Canterbury – Scrum Master and Tutor (Part-time, 01/20 – 11/20)

Acted as a scrum master for development teams in a third-year project course. This required extensive software engineering process knowledge. I additionally tutored and graded the students.

Projects

My Moola - Typescript, React native, NestJS, Next, Socket io, Firebase, AWS, Terraform
campbellmb.com/projects#my-moola

My Moola is Australia's first third-party banking application. Unifying the crowded financial landscape. My Moola required the creation of a banking API to read and write transactions on behalf of its users, a React native mobile application, and a React web app.

LogiCraft (UC Hackathon winner) - Python, Javascript, Flask, Vue.js
github.com/logic-craft/LogiCraft

LogiCraft is a logic gate schematic design web application that converts the schema into a Minecraft (world-building game) world file. The goal is to help a younger audience learn about computer science in a more familiar context. Built in under 24 hours as a team of four.

Sm Compiler - Python, JVM Bytecode
github.com/CampbellMBXJ/Sm-Compiler

'Sm' is a language designed to be compact, all reserved words are two characters. I built a scanner, parser and code generator which together output Java Assembly code to be run on a JVM.

Enriched Text Grafana Plugin - Javascript
github.com/CampbellMBXJ/grafana-enriched-text-plugin

A plugin for Grafana (open-source data visualisation tool) to template query data into an Html enriched text panel.

Education

University of Canterbury
2016 - 2020

Bsc with honours in Computer Science - Graduated 2020
Computer science STAR courses - Completed 2016

Referees available upon request.
