Tim Finucane

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Software Engineer, finishing at the University of Auckland as of November 2019. Experience in roles and environments ranging from full stack app development to neural network development. Looking for work either in the Auckland or Melbourne region. I am interested in developing new and interesting solutions to help make peoples lives easier. In addition to my work I enjoy contributing to open source projects, playing music, and learning.

Experience

Software Engineer, Shwoop, March 2019 – Present

Designing and developing a mobile app (and back-end) for an interactive treasure hunt, used in campaigns at the University of Auckland and Auckland University of Technology, as part of a startup.

- Front End development with React Native for iOS and Android
- Back End development of a restful API using a serverless architecture on AWS
- Using Agile methodologies to cope with fluid requirements and a variable workload, and performing requirements gathering to correctly identify tasks and work.
- Guiding other team members to help learn new technologies and delegate work effectively

Junior Developer Intern, Orion Health, November 2018 – February 2019

Working in an agile team developing a new product allowing customers to perform machine learning on private and anonymized data. The product uses a microservice architecture that allows for deployment, updating, and processing of machine learning models.

- Full stack development with React, Express, and Spring
- Creating a micro-service architecture using Docker and Kubernetes, and communicating via Kafka
- DevOps for staging and deploying on local servers and AWS with multiple configurations
- Using Scrum to effectively collaborate and communicate

Researcher & Professional Casual Staff, Auckland MRI Research Group, November 2017 – October 2018

Under supervision by a Professor and Research Fellow, improving an existing neural network designed to process cardiac MRI Images.

- Machine learning with Python and TensorFlow, developing convolutional neural networks
- Performing in a research environment with a team of medical and engineering experts

Bachelor of Engineering, Software (Honours), University of Auckland, February 2016 – November 2019

Completing in November 2019, and (hopefully) graduating in March 2020. Involved multiple team-based projects across a large variety of technologies and fields, with team sizes ranging from 2 to 30 people.

Skills

- React.js, React Native & Angular
- Rest APIs & Express
- AWS Lambda, S3, API & DNS, DynamoDB, Cognito
- Kubernetes & Kafka
- NoSQL Document Stores and MySQL

- Typescript and JavaScript
- C++, C, and Java
- Python
- Jira, Confluence & Bitbucket
- Jenkins, Code Pipeline
- Agile Methodology

References available upon request.