

Vinny Tunnell

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Work Experience

Quantiful, *Data Engineer*

March 2021 – Present

- Implemented multiple automated ETL pipelines for large retail datasets using Python/Pyspark, and a range of AWS services including Glue, ECS, Lambda, Step Functions, and Athena.
- Designed and implemented large scale machine learning pipelines using AWS Sagemaker
- Automated provisioning of resources using infrastructure as code (Cloudformation, AWS SAM)
- Extensive use of SQL to validate quality of, and produce business insights from datasets.
- Development and testing of Devops tools using Python, Bash, Docker, TravisCI and AWS APIs.
- Fast-paced Agile team with clients including Farmers, Spark, and Farmlands.

Quantiful, *Data Engineer Intern*

November 2020 – March 2021

University of Auckland, *Graduate Teaching Assistant*

July 2020 – December 2020

- Presentation of fundamental software development material to labs of over 80 students.
- Tutor for individual help with Python programming exercises in labs and online.

Maxtel Software, *Software Engineer Intern*

November 2018 – August 2019

- Developed the majority of a break management app for McDonald's - deployed to all 167 McDonald's sites in New Zealand and used by 110 regularly over one year.
- Web development using HTML, CSS, and Javascript.
- Entity relationship model design and use of SQL.

Education

BEng (Honours) in Software Engineering, *University of Auckland*

2017 – 2020

- Dean's Honours list, Faculty of Engineering 2020, 2017 (top 5% of engineering cohort)
- GPA 7.65/9 (A average)

Key Projects

Selecttext – Chrome/Firefox extension for copying text directly from Youtube videos. 1500+ users on the chrome web store. Extension homepage built with React: [selecttext.app](#). Backend built with NodeJS and a range of AWS and GCP services. Project technologies diagram [here](#).

Democrify – Party playlist web app built using a MERN stack (MongoDB, Express, React, Redux, NodeJS), and the Spotify Web API. Hosted using MongoDB Atlas and Heroku.

VR Art Therapy – Virtual reality painting tool for use in dementia therapy. Literature review, implementation in Unity with C#, and research report for final year engineering project.

Skills

Technologies: Python, Java, Javascript, Bash, SQL, AWS, GCP, HTML/CSS, React, Unity/C#, Git

General Software: Agile Development, , Systems Design, UX Design, Unit testing

Professional: Communication, Teamwork, Adaptability, Problem solving, Leadership