

RYAN TAN

Final year Computer Science (Honours) Student

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WORK EXPERIENCE

GRADUATE TEACHING ASSISTANT | UNIVERSITY OF AUCKLAND

Mar 2020 - Present

- Taught topics in Human-Computer Interaction (**HTML, CSS, JavaScript**), Large-Scale Software Development (**Java**), and Introduction to Software Fundamentals (**Python**) to more than 400 undergraduate students.
- Created tutorial videos to adapt to changes in content delivery due to COVID-19.

SOFTWARE ENGINEERING INTERN | XERO

Nov 2020 - Feb 2021

- Implemented automated testing suite and measured deployment lead times in **TeamCity** build pipelines.
- Wrote a serverless function in **NodeJS** using **AWS Lambda** to pipe data from **AWS DynamoDB** to **AWS ElasticSearch**. Set up database schemas for the ElasticSearch service.

DATA SCIENCE INTERN | ORION HEALTH

Nov 2019 - Feb 2020

- Designed and developed a data annotation tool prototype using **React**, aimed at reducing preparation time for New Zealand clinicians and data scientists.
- Wrote a **Python** script to preprocess medical texts by tagging important medical words annotated by clinicians.



PROJECTS

INPRODUCTIVITY | PERSONAL

2021

- Developed a **Google Chrome Extension** to block social media websites during work hours and reduce the frequency of checking emails to increase productivity.

POSITIVE VIBES ONLY | PERSONAL

2020

- Developed a website that allows users to post positive messages, using **ReactJs, MongoDB, Hapi, NodeJs** and **Microsoft Cognitive Services**. Deployed the frontend on **Netlify** and backend on **Heroku**.

TICKET CLASSIFIER | RESEARCH

2019

- Designed and developed a **C# Windows Form** desktop application to mimic knowledge work for office workers. The aim of the project was to study the effects of stress and notifications on phishing attacks.



ACHIEVEMENTS AND CERTIFICATIONS

AWS CERTIFIED CLOUD PRACTITIONER

2021

1ST PLACE DEVS HACKATHON

2020

- Created a viable business model for UpSkill, a web application that aims to upskill, reskill and retool learners to help them re-enter the job market.

SUMMER RESEARCH SCHOLARSHIP

2019



EDUCATION

THE UNIVERSITY OF AUCKLAND

Mar 2020 - Nov 2021

Bachelor of Science (Honours) in Computer Science

THE UNIVERSITY OF AUCKLAND

Jan 2018 - Nov 2019

Graduate Diploma in Computer Science

THE UNIVERSITY OF OTAGO

Feb 2014 - Nov 2017

Bachelor of Science in Neuroscience and Genetics