THOMAS DUFFETT
Software Engineer

CONTACT DETAILS

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ACADEMIC PROFILE

University of Auckland 2018-2021

Bachelor of Engineering (Hons)
Majoring in **Structural Engineering**

- **Awards**: First Class Honours, Summer Research Scholarship

EMPLOYMENT HISTORY

Structural Engineer

Northrop Consulting Engineers| July 2022 - Present

Graduate Structural Engineer

Dreamcast| November 2021- June 2022

Research Assistant

Zealandia Eco-Sanctuary| 2017-2018

TECHNICAL SKILLS

- Proficient in **Python, SQL** and **object-oriented programming:**
Learnt through personal projects, work projects, and CS50

- **JavaScript**, **React**, **Bootstrap**, **CSS** and **API** usage:
Learnt through personal projects

- **.Net Core**, **Microsoft Azure** and **Microsoft Cognitive Services:** Learnt through personal projects

- **Unit testing**, **test-driven development**, **DevSecOps**:
Learnt through personal projects, internships, and university courses

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PROJECTS

Web App Utilising Aritificial Intelligence

Python, Flask, AWS, HTML, API: Developed a react web app that utilises Microsoft Cognitive Services to create image thumbnails, detect emotion, and utilise face to face verification. Deployed using Azure Web Services.

Space Shapes GUI

Java: Utilised object-oriented programming principles to create a Swing GUI. Shapes move around the screen, also allowing the addition and removal of shapes—used multithreading to keep the program responsive.

Flat Finding Web App

HTML, **JavaScript**, **Node.js**, **Express**, **API**: Developed a web app that pulls data from the Trade Me API to display flat rooms to users and streamline the application process, created within a group of 5.

K Colour Image Generator

MATLAB: An efficient image manipulation program that when given an image and integer k reproduces the given image but utilising only k number of colours.

REFEREES AVALIABLE UPON REQUEST