# THOMAS DUFFETT

Software Engineer

## CONTACT DETAILS

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## ACADEMIC PROFILE

### UNSW 2024-current

**Master of Information Technology**
Majoring in Cyber Security
**WAM:** 89%

### University of Auckland 2017-2021

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

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

## SKILLS

### Technical

- Proficient in **Python, Flask, API**'s and **object-oriented** programming.

- Knowledge of **Unit testing**, **test-driven development**, and **DevOps.**

- Competent with **SQL,** and **MongoDB** databases.

- Capable with **JavaScript**, **React**, **Tailwind**, and **CSS**

- Experienced in **Amazon Web Services (AWS),** including **Elastic Beanstalk, EC2, S3,** and more.

### Communication

- **Public Speaking:** Winner of the 2023 Toastmasters Area 29 Contest, demonstrating exceptional public speaking and presentation skills.

- **Tutoring:** Provided one-on-one tutoring in mathematics, physics, and chemistry, helping students improve their understanding and performance in these subjects.

### Leadership

- **President, Coffs Harbour Toastmasters:** Led and managed the club, organised events, and mentored members to improve their public speaking and leadership skills.

- **Captain, Auckland University Boat Club Men's Squad:** Directed training sessions, coordinated team activities, and motivated the squad to achieve competitive success.

## PROJECTS

### Secure Login Web App Powered by AI

**Oauth2, Encryption, SQL, AWS**: Securely login using your **Google account**. Logged in users input a location and using **Google's VertexAI** and **Maps**, a nearby restaurant is recommended!

### Data Analysis and Reporting - Job Postings

**JavaScript, React, MongoDB, Docker:** Used web scraping to gather information from seek.com. Stored info in database and presented to user in web GUI for querying and automated frequency analysis.

### Structural Engineering Toolset

**Python**: Identified and automated repetitive complex structural engineering calculations using python. Created GUI for visual navigation, assistance, and easy documentation of calculations.

## EMPLOYMENT HISTORY

### Structural Engineer

Northrop Consulting Engineers | July 2022 - Present

- **Led** and **managed** a large scale structural design project, **coordinating** architects, drafters, and construction workers.

- Acquired in depth **project management** and **conflict resolution** experience.

### Graduate Structural Engineer

Dreamcast | November 2021- June 2022

- Designed residential houses

- Liased with Architects to determine project requirements

### Research Assistant

University of Auckland | December 2020- September 2021

- Assisted research in determining the drift capacity of reinforced concrete shear walls in an earthquake.

- Used **MATLAB** to analyse test data.

**REFEREES AVALIABLE UPON REQUEST**