

THOMAS DUFFETT

Software Engineer

CONTACT DETAILS

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EDUCATION

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 **DevSecOps.**
- 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

MongoDB, Web Scraping, Regex: 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
- Liaised 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 AVAILABLE UPON REQUEST