# JEFFREY YANG

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## EDUCATION

**University of New South Wales** (February 2018 – December 2023)

**Degree:** Bachelor of Science (Advanced Mathematics)(Honours) and Bachelor of Science (Computer Science)
**Majors:** Pure Mathematics, Computer Science
**Weighted Average Mark (WAM):** 89.381 (High Distinction)

## EXPERIENCE

**Daisee**
*Data Science Intern* (Mar 2021 – Jan 2022)

- Used Python (Scikit-learn, Keras, Transformers) to work on various machine learning tasks within the domain of natural language processing.
- Used semantic matching to expand an internal phrase library for a scorecard and performed kept meeting prediction, politeness classification and caller sentiment classification based on call transcripts.

**UNSW School of Computer Science and Engineering**
*Research Intern* (Feb 2021 – Sep 2021)

- Implemented and optimized a model checker for the Dynamic Logic of Propositional Assignments (DL-PA), a logic-based language with a set of features useful for modelling certain AI problems.

**CSIRO's Data61**
*Research Intern* (Dec 2020 – Feb 2021)

- Used Python (SentenceTransformers) to construct/train a sentence embedding model, create a neural index, perform information retrieval and analyse results.
- Conducted experiments to investigate the effectiveness of neural indexing in information retrieval on biomedical literature (TREC 2019 Precision Medicine Track).

## SKILLS

**Languages:** Python, C, C++, SQL
**Tools:** Python ML libraries, Git, Shell (Scripting, Make), Parser Generator (Flex/Bison), RDBMS (PostgreSQL)

## PROJECTS

**DL-PA Model Checker** **github.com/j3yang/dl-pa**

- A model checker for DL-PA implemented in C/C++. Parsing was done using Flex/Bison.

**j3yang.dev – Portfolio Website** **github.com/j3yang/portfolio-website**

- Personal website built using Hugo and deployed on Netlify.

## VOLUNTEERING

**UNSW Competitive Programming and Mathematics Society (CPMSoc)**
*President and Co-founder* (2021)

- Started the society to generate more interest in competitive programming/mathematics amongst students.
- Fostered relations with various entities for sponsorship and collaborations.
- Oversaw the development and execution of 9 mathematical problems solving workshops, 7 competitive programming workshops and 2 competitive programming competitions.

## AWARDS, SCHOLARSHIPS & ACHIEVEMENTS

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|---|---|
| **2021 ICPC South Pacific Regional Finals - 4th Place** | (2021) |
| **2021 ICPC South Pacific Divisional Finals - 5th Place** | (2021) |
| **2020 ICPC South Pacific Regional Finals - 6th Place** | (2020) |
| **UNSW Taste of Research Scholarship** | (2020) |
| **CSIRO Undergraduate Vacation Scholarship** | (2020) |
| **UNSW Engineering Dean's Honours List (Highly Commended)** | (2019, 2020) |
| **The Faculty of Science Dean's List for Academic Excellence** | (2018) |