

# JEFFREY YANG

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## EDUCATION

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### University of New South Wales

(Feb 2018 – Dec 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

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### 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

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**Languages:** Python, C, C++, SQL

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

## PROJECTS

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### DL-PA Model Checker

[github.com/j3yang/dl-pa](https://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](https://github.com/j3yang/portfolio-website)

- Personal website built using Hugo and deployed on Netlify.

## VOLUNTEERING

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### 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)