

# Zachary Sanchez

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## CAREER PROFILE

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- Third year, HD average Bachelor of Adv. Math (Hons) / Computer Science student
- Experienced in modern software standards and practices
- Effective communicator as a UNSW lab assistant and high school tutor.

## EDUCATION

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### Bachelor of Adv. Math (Hons) / Comp Sci

University of New South Wales

Mar 2017 - Expected 2021

MAJORS: APPLIED MATHEMATICS AND COMPUTER SCIENCE

- **WAM: 90.9**
- 5th in course MATH2221 | 2017 Simon Marais Mathematics Competition Top Quartile
- Dean's list Faculty of Science 2018 | Dean's list Faculty of Engineering 2018

### Higher School Certificate

2016

- **ATAR: 99.85** | Cadet Officer | St. Vincent's De Paul | 1st Football | 1st Chess

## RELEVANT EXPERIENCE AND PROJECTS

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### Intern: Aus Gov. Department of Defence: Science and Technology

Summer 2018-19

- Developed the backend system for running jobs on a cluster computing network.
- Created user API for producing automatic reports of the data with visualisations and tables.
- Followed test-driven development and version control through `git`.
- `python`, `pytest`, `pandas`, `matplotlib`, `hadoop`, `pySpark`.

### Personal Projects

- **BitBetter:** Developed a web-based tool for generating statistical analyses of soccer games.
- **AutoBetter:** CL tool for automatically placing bets on a popular betting website.

### University Projects

- **COMP3411:** Implemented AI algorithms for a bot to intelligently play a stochastic 2D game.
- **COMP9444:** Developed neural networks in `tensorflow` to solve problems in sentiment analysis, image recognition and game playing.

### Tutor

#### UNSW Computer Science and Engineering

Feb 2019 - Current

- Lab assistant for COMP1511 (Intro to Programming).

#### Talent 100 <https://talent-100.com.au/>

Dec 2017 - Current

- Conduct engaging weekly lessons in maths and physics 95% positive feedback
- Converted outdated materials into  $\text{\LaTeX}$  format and created new material for 2019 syllabus.

## EXTRACURRICULAR

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ST VINCENT'S DE PAUL (MONTHLY NIGHT PATROL) | FOOTBALL (CARLTON ROVERS FC)

## INTERESTS

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BOARD GAMES: Casual and Competitive    INVESTING: Managing my stock portfolio

## REFEREES

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- Timothy Surendonk | Defence Science and Technology | Supervisor
- Dr. Jan Zika | UNSW School of Maths and Statistics | MATH2221 Lecturer
- David Sadler | Head of Mathematics | Talent 100

Contact details available on request