

# Zac Kologlu

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## EDUCATION

### UNSW

BSC. COMPUTER SCIENCE

Grad. 05/2022, HD WAM

### MANLY SELECTIVE CAMPUS

Grad. 2018

## LINKS

GitHub: [insou22](#)

LinkedIn: [Zac Kologlu](#)

YouTube: [Zac Kologlu](#)

## PROJECTS

Typing the technical interview; **Rust**

mipsy; **Rust**

flymark; **Rust**

talloc; **JavaScript**

chomp; **Java**

## AWARDS

**2019** The Macquarie Performance Prize for Year 1

(1st Place)

**2019** Dean's Honours List

(Highly Commended)

**2020** Dean's Honours List

(Highly Commended)

## SKILLS

Software development

Teaching

Program correctness

Type systems

Static program semantics

Compilers

Linux systems-administration

Systems programming

Program performance

Programming language tooling

Technical writing

## EXPERIENCE

### UNSW | LECTURER

May 2022 – Present | Sydney, AUS

- **22T3**: Designed, implemented, and lectured a new course COMP6991 - Solving Modern Programming Problems with Rust
- First offering of 100 students, with a teaching team of 6.
- Managed overall administration and delivery of the course.
- **22T2**: Lectured and administrated core course COMP1521 - Computer Systems Fundamentals
- Approximately 800 enrolled students.
- Coordinated hiring & timetabling followed by in-session management of 33 teaching staff.
- Managed overall administration and delivery of the course.

### UNSW | COURSE ADMINISTRATOR / TEACHER

May 2019 – May 2022 | Sydney, AUS

- Education, delivery, administration of Computer Science courses.
- Extensive Linux sysadmin, software development of course infrastructure.
- Teaching materials development, including software development of teaching tools (see: mipsy project).
- Teaching 1-3 classes each of 24 students per course offering.
- **COMP1521**: **Tutor** 20T2, 20T3, **Admin** 21T2, 21T3, 22T1, 22T2
- **COMP2041**: **Admin** 21T1
- **COMP1511**: **AT** 19T2, **Tutor** 19T3, 20T1, 21T1.

### AWS | SOFTWARE DEVELOPMENT ENGINEER (PLACEMENT)

Sep 2020 – Feb 2021 | Sydney, AUS

- 6-month placement in AWS Redshift Sydney (cloud big data).
- Consolidated previous 40+ step process for customers to load sample data into a single simple step.
- Maintained strong project ownership, collaborated with other AWS teams, deployed into live production.

### UNSW CSESOC | PROJECTS DIRECTOR (TECHNICAL)

Dec 2020 – Dec 2021 | Sydney, AUS

Volunteering Position

- Co-Directed Projects Subcommittee; 7 direct-reports spanning 35 members.
- Liaised between reports (individual teams) and CSESoc executive team to manage progress, strategy and vision.
- Sole systems-administrator of CSESoc services, managed with Kubernetes control plane and Docker nodes.

### THE NRMA | SOFTWARE DEVELOPER

Nov 2018 – May 2020 | Sydney, AUS

- Developed a highly available, scalable IVR system with AWS cloud system which cut costs and simplified existing systems.
- Secured internal wiki with cross-origin token-based auth for critical NRMA roadside driver demo videos with AWS Cognito, S3, federated through varying authentication platforms.

### ULFRIC PROJECTS | SOFTWARE DEVELOPER

2015 – 2017 | FL, USA (Remote)

- Designed a variety of systems, including cost effective dynamic pre-emptive VMs on Google GCP to run game-servers.
- Worked on HTTP-based protocol with Java runtime bytecode manipulation to simplify API creation & interoperability.

## L<sup>A</sup>T<sub>E</sub>X SOURCE

<https://github.com/insou22/resume>