

# TOM NGUYEN

**LOCATION:** Sydney, Australia  
**EMAIL:** [hi@tomn.me](mailto:hi@tomn.me)  
**GITHUB:** [github.com/lecafard](https://github.com/lecafard)

---

## EXPERIENCE

### SOFTWARE DEV ENGINEER - AMAZON WEB SERVICES

APR 2021 - PRESENT

- Worked on improving the performance of the deployment and scheduling systems used to update networking devices across AWS's global network.
- Designed and implemented an emergency safety feature for our deployment workflows to allow engineers and managers to quickly and easily mitigate operational events.
- Developed a event-based system to overhaul the way network deployments are scheduled, resulting in a 25% improvement in velocity.
- Utilised technologies such as Spring, React, Elasticsearch and AWS Services such as DynamoDB, S3, CloudWatch, CDK, SQS and SNS.

### SOFTWARE DEV ENGINEER INTERN - AMAZON WEB SERVICES

DEC 2020 - FEB 2021

- Designed and built a web-based frontend for a network change-management system
- Worked with AWS technologies such as EC2 and DynamoDB, as well as extensive internal tooling

### PRODUCT ENGINEER INTERN - AUSTRALIAN GOVERNMENT

OCT 2019 - MAR 2020

- Worked with the team to rewrite an old application to adapt to the organisation's changing requirements
- Backend development with Java and PostgreSQL
- Frontend development with React and Typescript

### SOFTWARE DEVELOPER - TIMEWEAVE

SEP 2018 - NOV 2019

- Involved in the expansion of Timeweave's support to other universities around the world
- Developed web scrapers using Python and the Selenium toolkit
- Worked with the backend stack, composed primarily of TypeScript microservices

- Ported the app to React and Typescript

## ACTIVITIES

- ICPC Regional Finalist 2019
- Simon Marais Mathematics Competition
- NCSS Challenge Volunteer Tutor
- UNSW Security Society - Backend and Infrastructure Head
- DownUnderCTF - Infrastructure Administrator

## TECHNICAL SKILLS

- Languages: Java, Python, JavaScript, Go, C
- Frameworks: Flask, React, Express, Spring Boot
- Databases: PostgreSQL, MySQL, MongoDB, Redis, DynamoDB
- Misc: Linux, Bash scripting, Docker,  $\LaTeX$ , SQS, SNS

## EDUCATION

### UNIVERSITY OF NEW SOUTH WALES

2018-2020

Bachelor Of Science (Computer Science) with Distinction

Academic tutor for:

- COMP2041 - Software Construction
- COMP1521 - Computer Systems Fundamentals

## PROJECTS

### KUBE-CTF

- A deployment system used for the running of Capture the Flag Cybersecurity challenges.
- The system assigns Kubernetes pods to individual players and provides resource isolation.
- Used to run the DownUnderCTF Competition in 2021.

### SEC SOC DISCORD BOT

- Created a bot to automatically verify users for the Security Society Discord
- Implemented admin functionality, such as creating event channels

See [tomn.me](https://tomn.me) for more!

More details available on request.

Generated on 21 July 2022.