

NICHOLAS LAMBOURNE

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EDUCATION

The University of New South Wales

Bachelor of Science (Honours; Computer Science & Engineering)

Sydney, NSW, Australia

Feb 2021 - Jul 2022

The University of Queensland

Bachelor of Science (Computer Science)

Brisbane, QLD, Australia

Graduated 2020

Bachelor of Commerce (Finance) & Bachelor of Science (Psychology)

Graduated 2015

EXPERIENCE

Canva

Sydney, NSW

Software Engineer

Feb 2021 - Present

- Newly attached to the Platform & Tools team of the Data Engineering group, working to maintain Canva's data lake, associated workflows, and the hosted notebooks platform that facilitates ML development within the company.

Software Engineering Intern

Dec 2019 - Feb 2020

- As part of the infrastructure team, built a shell script transpiler framework and reference generator targeting Python 3.
- Created an interactive playground, using Python, Flask and React, allowing for real-time transpilation in the browser.

The University of Queensland - School of IT & Electrical Engineering

Brisbane, QLD

Research Assistant

Jun 2018 - Present

- Contributed to the development of Elpis, abstracting away the complexity of the Kaldi automatic speech recognition (ASR) library. Our team took a CLI toolkit and developed an abstraction layer and GUI using React and Flask.

Teaching Assistant

Jul 2018 - December 2020

- *Voyages in Language Technologies* (COMP3001): taught computational linguistics and helped prepare course materials.
- *Computer Systems Principles and Programming* (CSSE2310): taught students systems programming using C and Unix.
- *Programming in the Large* (CSSE2002): taught Java/OO programming and developed course teaching materials.

Atlassian

Sydney, NSW

Site Reliability Engineering Intern

Nov 2020 - Feb 2021

- Attached to the Platform SRE team, I am worked on various full stack (PostgreSQL, Java, Spring, TypeScript) projects related to the reporting of service level objective (SLO) performance to internal teams.

Patchd, Inc.

San Francisco, CA

Software Engineering Intern

Jan 2019 - Feb 2019

- Worked on parallelisation strategies for training recurrent neural nets in the detection of sepsis from vital sign data.

SKILLS

Languages: Python, Java, C, TypeScript/JavaScript, SQL, HTML/CSS, L^AT_EX
Tools: Web Frameworks (Flask, Django, ExpressJS), SQL DBs (PostgreSQL, MySQL), NoSQL (Mongo), CI/CD (Jenkins, Travis), Cloud Platforms, Containerisation (Docker)

PROJECTS

Elpis - Accelerated Linguistic Transcription

github.com/CoEDL/elpis

- Part of a team developing an abstraction framework and GUI for speech recognition using the Kaldi ASR library.

SlackBlocks - Slack API Wrapper & PyPI Package

github.com/nicklambourne/slackblocks

- A Python library, published on PyPI, for back-porting the Slack Blocks API to earlier versions of the Slack client.

Hermes - Language Resource Creator

github.com/CoEDL/hermes

- A cross-platform Python/Qt application for creating language teaching resources from linguistic analysis files.

UQCSbot - A Python-Based, Extensible Slack Bot

github.com/UQComputingSociety/uqcsbot

- Contributed new Python scripts, script overhauls, and code reviews to my university computing society's Slack bot.

VOLUNTEERING

University of Queensland Computing Society

2015 - Present

- As president in 2019 I organised talks and events, secured sponsorships, and managed the club's open source projects.
- Oversaw a 30% increase in membership, twofold increase in number of events held, and a 75% increase in sponsorship.
- Returned to manage the events portfolio as part of the 2020 executive committee, organising more than 50 events.
- In 2020 I was named an honorary life member in recognition of extraordinary contributions to the society.

Node Girls, Django Girls, & Robogals (Brisbane Chapters)

2016 - 2020

- Provided mentorship in web and robotics technologies in an effort to increase female representation in technology.

SCHOLARSHIPS, GRANTS & PRIZES

UQ Faculty of Engineering, Architecture & IT Hawken Scholar (2020)
UQ IdeaHub San Francisco Startup Adventure Participant (2019)
UQ Summer Research Scholarship (2019)
UQ Advantage Grant (CoEDL Summer School) (2018)
UQ Winter Research Scholarship (2018)

References available upon request