# Nicholas Lambourne

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## EDUCATION

**The University of New South Wales** — Sydney, NSW, Australia
Bachelor of Science (Honours; Computer Science & Engineering) — Feb 2021 - Jul 2022
**The University of Queensland** — Brisbane, QLD, Australia
Bachelor of Science (Computer Science) — Graduated 2020
- Exchange Studies (Computer Science) - The University of Connecticut — Jan 2018 - May 2018
Bachelor of Commerce (Finance) & Bachelor of Science (Psychology) — Graduated 2015

## EXPERIENCE

**Atlassian** — Sydney, NSW
*Site Reliability Engineering Intern* — Nov 2020 - Present
- Attached to the Platform SRE team, I am currently working on various full stack (PostgresSQL, Java, Spring, TypeScript) projects related to the reporting of service level objective (SLO) performance to internal teams.

**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.

**Canva** — Sydney, NSW
*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.

**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

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| **Languages:** | Python, Java, C, TypeScript/JavaScript, SQL, HTML/CSS, LaTeX |
| **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 - Present
- Provided mentorship in web and robotics technologies in an effort to increase female representation in technology.

## SCHOLARSHIPS, GRANTS & PRIZES

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| **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*