Nicholas Lambourne

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EDUCATION

The University of Queensland   St Lucia, QLD, Australia
Bachelor of Engineering (Hons) (Software Engineering)   Feb 2016 - Nov 2020
Bachelors of Commerce/Science (Finance & Psychology)   Graduated 2015
The University of Connecticut   Storrs, CT, United States
Exchange Studies (Computer Science)   Jan 2018 - May 2018

EXPERIENCE

The University of Queensland - Complex & Intelligent Systems Group   St Lucia, QLD
Research Assistant   Jun 2018 - Present
- Contributed to the development of Elpis, abstracting away the complexity of the Kaldi Automatic Speech Recognition library. Our team took a CLI toolkit and developed a GUI with React and Flask.
- Developed software for the Ngukurr OPIE Social Robot Project (see Hermes, below).

The University of Queensland - Faculty of Engineering, Architecture & IT   St Lucia, QLD
Teaching Assistant   Jul 2018 - Present
- Led tutorials and supervised practicals for the course *Programming in the Large*, where students are taught Java, object-oriented programming and the fundamentals of GUI development.
- Responsible for several teams of first-year engineering students taking the course *Engineering Modelling and Problem Solving* in which they utilise industry tools including CREO and Matlab to design, build and test a model UAV.

Patchd, Inc.   San Francisco, CA
Software Engineering Intern   Jan 2019 - Feb 2019
- Patchd is a Y-Combinator backed startup working on the detection of sepsis from vital sign data using ML.
- I worked on parallelisation strategies for training RNNs and introduced elements of software engineering best practice.

SKILLS

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

PROJECTS

Elpis - Accelerated Linguistic Transcription (https://github.com/CoEDL/elpis)
- Part of a team developing a framework and GUI for automatic speech recognition using the Kaldi ASR library.

Hermes - The Language Resource Creator (https://github.com/CoEDL/hermes)
- Developed a cross-platform Python/Qt application for creating language resources from linguistic analysis files.

uqcsbot (https://github.com/UQComputingSociety/uqcsbot)
- Contributed new Python scripts, script overhauls, and code reviews to my university computing society's Slack bot.

adled-io (Proprietary/Closed Source)
- Portal for monitoring an LED billboard network with real-time status and live video using Python, Django & PostgreSQL.

LED Billboard Rotation System (Proprietary/Closed Source)
- Python system for controlling the rotation of large-format LED billboards including GUI and concurrency-based features.

VOLUNTEERING

University of Queensland Computing Society   2014 - Present
- Elected president of the 400+ member society for the 2019 academic year.
- I have also given lightning talks, assisted with events and contributed to open source projects (websites, Slack bots etc.).

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

UQ IdeaHub San Francisco Startup Adventure Participant	The University of Queensland (2019)
UQ Summer Research Scholarship	The University of Queensland (2019)
UQ Advantage Grant (CoEDL Summer School)	The University of Queensland (2018)
UQ Winter Research Scholarship	The University of Queensland (2018)
University of Connecticut Innovation Quest - Finalist	The University of Connecticut (2018)
UQ Abroad Travel Grant (University of Connecticut)	The University of Queensland (2018)

References available upon request