

# NICHOLAS LAMBOURNE

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## EDUCATION

### The University of Queensland

Bachelor of Engineering (Hons) (Software Engineering)  
Bachelors of Commerce/Science (Finance & Psychology)

St Lucia QLD, Australia

Feb 2016 - Dec 2019

Class of 2015

## EXPERIENCE

### ADLED Pty. Ltd.

*Technical Advisor*

Cleveland, QLD

Jun 2016 - Dec 2017

- Managed technical aspects of a network of LED billboards across South-East Queensland.
- Developed and maintained a real-time online resource monitoring portal for the LED network.
- Compiled and provided financial reports for investors and industry bodies.
- Worked with industry groups to lobby local governments on legislative issues.

### SS Signs

*Technical Advisor*

Cleveland, QLD

Oct 2015 - Jun 2016

- Led technical documentation and training efforts for various LED billboard systems.
- Oversaw the development of a boutique content management system (CMS).
- Headed an extensive technical and financial review of CMS systems.
- Developed and deployed software to increase advertising impressions by controlling the rotation of large-format LED billboards to face oncoming traffic at different times of day.

## SKILLS

### Programming Languages

Familiar: Python, Java, C, JavaScript, SQL, L<sup>A</sup>T<sub>E</sub>X, HTML/CSS  
Encountered: Matlab, Ruby, AVR Assembly, SML, Smalltalk, Prolog

### Other Skills

Tools: VCS (Git, SVN), Web Frameworks (Django, Flask, ExpressJS), NodeJS, Jupyter, REST APIs, Linux Environments (Ubuntu), Web Servers (nginx, Apache), SQL DBs (PostgreSQL, MySQL), NoSQL (MongoDB), CI/CD (Jenkins), Wordpress  
Platforms: AWS (EC2, S3, Elastic Beanstalk), Heroku

## PROJECTS

### ndl.im (<https://github.com/nicklambourne/personal>)

- Personal website built using NodeJS, ExpressJS and MongoDB with an automated build pipeline and Jenkins for CI/CD, hosted on Heroku.

### ELAN Language Resource Creator (<https://github.com/nicklambourne/elan2resource>)

- As part of the UQ Winter Research Scholarship I developed a cross-platform Python application, using the Qt GUI library, for creating language resources from ELAN linguistic analysis files and associated media files.

### uqcsbot (<https://github.com/UQComputingSociety/uqcsbot>)

- Contributed new scripts and script overhauls to the society's Slack bot, originally written in JavaScript and later ported to Python.

### adled.io (Proprietary/Closed Source)

- Built a proof-of-concept web portal for monitoring an LED billboard network. Used various APIs to provide real-time status monitoring and live video feeds. Built using Python, Django, PostgreSQL. Hosted on DigitalOcean using Gunicorn and nginx.

### LED Billboard Rotation System (Proprietary/Closed Source)

- Developed a system for controlling the rotation of a large-format LED billboard. It used a daemonized Python process running on a Unix-based device. Later upgraded to include a GUI element and concurrency-based features.

## VOLUNTEERING

### Node Girls/Django Girls - Brisbane Chapters

2017 - Present

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

### Robogals - University of Queensland Branch

2016 - Present

- Demonstrated for and mentored students in robotics, engineering and gender representation.

### University of Queensland Computing Society

2015 - Present

- I have given lightning talks, assisted with events and contributed to open source projects (websites, Slack bots etc.).

### YOW! Conference

2017

- Participated as a student volunteer assisting with conference organisation and preparation.

## AWARDS

### UQ Winter Research Scholarship

The University of Queensland

### Dean's Commendation for Academic Achievement

The University of Queensland

### UConn Innovation Quest - Finalist

The University of Connecticut

*References available on request*