

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 - Jun 2020
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 an online resource monitoring portal for the LED network.
- Provided financial reporting to investors and industry bodies.
- Worked with industry groups to lobby local governments on legislative issues.
- Consulted with CEO & Directors on company technical and financial policy.

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^AT_EX, 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.

uqcs.org.au (<https://github.com/uqcomputingsociety/website>)

- Contributed to the visual overhaul of the computing society website (Ruby/Jekyll) and fixed various bugs.

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

- Contributed new scripts and script overhauls to the society's Slack bot, written in Javascript.

adled.io (Proprietary/Closed Source)

- Built a proof-of-concept web portal for monitoring the 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 and deployed an embedded system for controlling the rotation of a large-format LED billboard. It used a daemonized Python process running on a Unix-based device and was 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

- Active member of the society, giving lightning talks, attending and assisting with events and competitions.

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