Curriculum Vitae

Nicholas Lambourne
105 Sprague Hall, University of Connecticut, Storrs CT, 06269 (on exchange from Australia)
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https://ndl.im | https://github.com/nicklambourne

EMPLOYMENT HISTORY

Technical/Financial Advisor
June 2016 – December 2017
ADLED Pty. Ltd. | Cleveland, QLD, Australia

Responsibilities:

- Managed a network of LED billboards across South-East Queensland
- Systems research & development
- Developed/maintained an online resource monitoring portal
- Financial reporting to investors & industry bodies
- Evaluation of external sales team performance
- Consulted directly with CEO/Directors on company financial strategy

Technical Advisor
October 2015 – June 2016
SS Signs & Vehicle Wraps | Cleveland, QLD, Australia

Responsibilities:

- LED Billboard Installation/Calibration
- LED Billboard Maintenance
- Content Management Suite Training
- CMS Suite Evaluation
- Oversaw the development of a boutique CMS system
- Travelled internationally to evaluate LED panel and control chip manufacturers & CMS software
- Developed and deployed a software system to maximise ad impressions by controlling the rotation of LED billboards to face oncoming traffic

PROJECTS

ndl.im: *(https://github.com/nicklambourne/personal)*
Personal website/blog/portfolio built using NodeJS, Express and MongoDB with an automated build pipeline using Jenkins for CI/CD, hosted on Heroku.

uqcs.org.au: *(https://github.com/UQComputingSociety/website)*
Contributed to the visual overhaul of the university's computing society website (Ruby/Jekyll) and fixed various longstanding behavioral bugs.

uqcsbot: *(https://github.com/UQComputingSociety/uqcsbot)*
Contributed new scripts and script overhauls to our university computing society Slack bot, written in JavaScript.

adled.io: *(proprietary/closed source)*
Developed and deployed a proof-of-concept web management portal for the monitoring of ADLED's network of LED Billboards. It utilized various APIs to provide real-time status tracking and live video feeds to management and technicians. It was built using Python, Django, PostgreSQL and was hosted on a DigitalOcean cloud instance using Gunicorn and nginx.

LED Billboard Rotation System: *(proprietary/closed source)*
Developed and deployed an embedded system for controlling the mechanical rotation of a large-format LED billboard. This system used a demonized Python process running on a Unix-based device and was later upgraded to include a GUI element and concurrency-based features.

LANGUAGES & SKILLS

Languages

- Familiar: Python, Java, C, JavaScript, HTML, CSS, SQL
- Encountered: Matlab, Atmel AVR, Ruby
- Learning: Go, SML

Tools, Libraries & Concepts

- Familiar: Vim, PyCharm/Webstorm/IntelliJ, Unix Environments, VCS (Git & SVN), Object-Oriented Programming, MVC, Unit Testing, Web Frameworks (ExpressJS, Django, Flask), Jupyter Notebooks, Statistical Analysis, Node.js, REST APIs
- Encountered: Apache, nginx, PostgreSQL, MySQL, AWS EC2/S3, Network Programming, Concurrency, CI/CD (Jenkins), Wordpress, NoSQL (Mongo), Agile, TDD
- Learning: React.js, Redux, GraphQL

EDUCATION

The University of Queensland
Bachelor of Engineering (Software)
2016 – Present | *Expected Completion: December, 2019*
The University of Connecticut | Exchange Studies | *Spring, 2018*
The University of Glasgow | Exchange Studies | *Fall, 2018*

The University of Queensland
Bachelor of Commerce (Finance)
Class of 2015

The University of Queensland
Bachelor of Science (Psychology)
Class of 2015

AFFILIATIONS

Node Girls
Mentor | *2017 – Present*

Django Girls
Mentor | *2017 – Present*

Robogals - University of Queensland Branch
Volunteer | *2016 – Present*

University of Queensland Computing Society
Member | *2015 – Present*

Coochiemudlo Island Coast Care
Web Administrator | *2016 – Present*

REFEREES

Rob Sharp (CEO)
ADLED Pty. Ltd.
261 South St, Cleveland, QLD

Phil Toop (Director)
School & Office Supplies
1/70 Tingal Road, Wynnum, QLD

Contact details available on request