WINTON NATHAN-ROBERTS

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Portfolio Page

in winton-nathan-roberts

Sydney, NSW

EXPERIENCE

Junior Full Stack Engineer Metigy

- November 2020 -May 2021
- Svdnev
- Work closely with engineering, product, customer service and design teams, to deliver high-quality solutions for Metigy customers
- Develop secure APIs with Node.js, PHP, AWS Serverless, and MySQL
- Develop front ends according to prescribed UX/UI with React.js
- Utilise BitBucket pipelines and versioning in docker environment
- Unit Testing, Acceptance and Regression Testing (Cypress, Jest)

Summer Research Project Oracle via The University of Sydney

- December 2019 April 2020
- Svdnev
- Developed an algorithm for parsing plaintext security protocols described in HyperLTL into a monitor of logs for their violation
- Test Driven Development with CI/CD
- Wrote accompanying research paper and presented a seminar
- Python, PyTest, Git, GitHub

Software Engineering Internship

Rio Tinto Centre for Mine Automation

- **a** January 2019 August 2019
- Sydney
- Developed a polynomial time train scheduling algorithm for automated ore transport over the Pilbara mine train network.
- Test Driven Development with CI/CD
- Documentation via LaTEX reports, Jira and Seminars
- Python, PyTest, Git, JIRA, BitBucket, SimPy and Gurobi

PERSONAL PROJECTS

NLP Beverage Classifier with React Frontend

♣ TF Keras ^{aws} Serverless **☐** Pipelines **⇒** Docker **⊗** React

Links: **//>** Source 5 Demo

Marvel Site

React.js 🛣 Styled Components 🗏 Bootstrap

Links: </>
Source 5 Demo

COVID-19 Data Analysis and Modelling

Python (Pandas, Scipy, Numpy)

Peer-to-Peer Blockchain

🛓 Java 🚸 Git

Link: </>
Source

BikeRadar: Share Bike Aggregation

React Native JavaScript • Git

Links: (A) iOS App Store Android Play Store

Wild West Zombie Mobile Game

∜ Unity3D **②**.NET C#

Link: YouTube

SKILLS

Languages



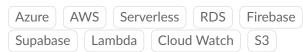
Specialities



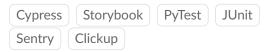
Frameworks & Libraries

Node.js	React.js	React Nat	tive	Antlr
Pandas	Keras	Tensorflow	Sty	yled

Cloud Technologies



Testing Frameworks & Project Management



DevOps

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Docker	Git	lira	BitBucket Pipelines
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Quantitative Finance

Stochastic Processes Statistics

Linear Modelling Financial Derivatives

EDUCATION

BSc (Computer Science, Financial Maths)
The University of Sydney

Graduated July 2020 | WAM: 83.9

BEng (Mechanical Engineering) (Hons)

The University of Sydney

Graduated July 2020 | WAM: 83.9

REFEREES

Eddie Lim - Tech Lead

@ Metigy

eddie.lim@metigy.com.au

Brittany Crocker - Junior Engineer

@ Metigy