WINTON NATHAN-ROBERTS

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Portfolio Page

in winton-nathan-roberts

Sydney, NSW

EXPERIENCE

Junior Full Stack Engineer Metigy

- November 2019 Present
- Sydney
- Work closely with engineering, product, customer service and design teams, to deliver high-quality solutions for Metigy customers
- Develop secure APIs with Node.js, AWS Serverless, and MySQL
- Develop front ends according to prescribed UX/UI with React.js
- Utilise Docker pipelines and version control (BitBucket) for DevOps
- Unit Testing, Acceptance and Regression Testing (Cypress, Jest)

Software Engineer and Researcher Oracle via The University of Sydney

- **December 2019 April 2020**
- Sydne
- 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
- Stack: Python, PyTest, Git, GitHub

Software Engineer and Researcher Rio Tinto Centre for Mine Automation

i 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 report writing and Jira
- Stack: Python, PyTest, Git, JIRA, BitBucket, SimPy and Gurobi

PERSONAL PROJECTS

Marvel Site

Stack: React.js Styled Components Bootstrap

Links: () sourcehut [5] Heroku (Live Demo)

NLP Beverage Classifier with React Frontend

Stack: Python (Keras) Tensorflow Node.js React.js

COVID-19 Data Analysis and Modelling

Stack: Python (Pandas, Scipy, Numpy)

Peer-to-Peer Blockchain

Stack: **⑤** Java **◈** Git Link: ○ sourcehut

BikeRadar: Share Bike Aggregation

Stack: React Native JavaScript Git

Links: A iOS App Store

Android Play Store

Wild West Zombie Mobile Game

Stack: **♦ Unity3D • .NET** C#

Link: ▶ YouTube

SUMMARY

Dependable with strong problem solving, communication and technical skills.

SKILLS

Languages



Specialities



Frameworks



Cloud Technologies



Testing Frameworks

Jest	Cypress	PyTest	JUnit
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DevOps



Quantitative Finance



EDUCATION

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

Graduated July 2020 | WAM: 83.9

BEng in Mechanical Engineering (Hons)
The University of Sydney

Graduated July 2020 | WAM: 83.9

REFEREES

Dr Sasha Rubin - Supervisor

- @ Oracle/University of Sydney

Dr Andrew Hill - Director

- @ Rio Tinto Centre for Mine Automation