WINTON NATHAN-ROBERTS

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Portfolio Page

in winton-nathan-roberts

Sydney, NSW

EXPERIENCE

Junior Full Stack Engineer Metigy

November 2020 - 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

Sydney

- 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

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: </>
Source H Demo

NLP Beverage Classifier with React Frontend

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

Links: </>
Source 5 Demo

COVID-19 Data Analysis and Modelling

Stack: Python (Pandas, Scipy, Numpy)

Peer-to-Peer Blockchain

Stack: Java Git

Link: </>
Source

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#

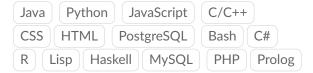
Link: ▶ YouTube

SUMMARY

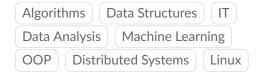
Dependable with strong problem solving, communication and technical skills.

SKILLS

Languages



Specialities



Frameworks

Node.js		React.js		React Native		: Native	Unity	
Antlr	Р	andas	K	eras		Tensorflo	W	

Cloud Technologies



Testing Frameworks

Cypress	Storybook	PyTest	JUnit

DevOps



Quantitative Finance

Stochastic Process	es	Statistics		
Linear Modelling	Fin	ancial 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

Dr Sasha Rubin - Supervisor

@ Oracle/University of Sydney

Dr Andrew Hill - Director

@ Rio Tinto Centre for Mine Automation