

Reuben Ng

Curriculum Vitae

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EDUCATION

PhD Research 2018-present

University of Southampton

Biomedical Electronics Research Group

Working on AI powered Brain-Machine Interface

MEng. Electronic Engineering with Artificial Intelligence 2014-2018

University of Southampton

First Class Honours

Relevant Modules: Machine Learning, Computational Biology, Data Mining, Advanced Machine Learning, Computer Vision, Computational Finance, Intelligent Agents

PROJECT EXPERIENCE

Cryptocurrency Price Prediction 2018

Advanced Machine Learning

Use twitter sentiment to predict price movement of cryptocurrency with different deep neural network architectures, i.e. Long Short-term Memory, Convolutional Neural Network.

Smart Contract 2018

Computational Finance

Mini game smart contract with betting. Deployed onto Ethereum Ropsten.

Secure Ping by BAE Systems 2017-2018

Final Year Group Project

Secured ethernet devices to identify secret network. Prototype has preliminary approval for use at a BAE Systems facility.

Secondary Protein Structure Prediction 2016-2017

Computational Biology

Predict secondary protein structure with deep neural network.

Playing Video Game with Deep Reinforcement Learning 2016-2017

Third Year Individual Project

Play video games using raw pixel values as input with deep reinforcement learning.

IoT Rolling Robot by BAE Systems 2016

Second Year Prize Winner

IoT rolling robot, live multiple sensor feedbacks and first-person video feed. Movement controlled gyroscopically via smart phone.

IBM's Master the Mainframe Contest 2015

Part 2 Prize Winner

Programming and debugging mainframe programs.

SKILLS

<i>Languages</i>	English (fluent) Mandarin Chinese (fluent), Cantonese Chinese Malay
<i>Programming</i>	PYTHON, C, C++, MATLAB, L ^A T _E X SOLIDITY (Smart Contract) Embedded Programming, Web Applications
<i>Machine Learning</i>	TENSORFLOW, KERAS Deep Neural Network, Reinforcement Learning, Computer Vision
<i>Others</i>	Blockchain, Smart Contract, Cryptocurrencies