Reuben Ng

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Education

Present - Oct 2018	**PHD RESEARCH** Biomedical Electronics Research Group, University of Southampton Working on AI powered Brain-Machine Interface.
2018 - 2014	**MENG. ELECTRONIC ENGINEERING WITH ARTIFICIAL INTELLIGENCE** Electronics and Computer Science, University of Southampton First Class Honours. Relevant Modules: Machine Learning, Computational Biology, Data Mining, Advanced Machine Learning, Computer Vision, Computational Finance, Intelligent Agents

Relevant Projects

Apr 2018	**CRYPTOCURRENCY PRICE PREDICTION** 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.
Apr 2018	**SMART CONTRACT** Computational Finance Mini game smart contract with betting. Deployed onto Ethereum Ropsten.
Apr 2018 - Sep 2017	**SECURE PING BY BAE SYSTEMS** Final Year Group Design Project Secured ethernet devices to identify secret network. Prototype has preliminary approval for use at a BAE Systems facility.
May 2017	**SECONDARY PROTEIN STRUCTURE PREDICTION** Computational Biology Predict secondary protein structure with deep neural network.
May 2017 - Oct 2016	**PLAYING VIDEO GAME WITH DEEP REINFORCEMENT LEARNING** Third Year Individual Project Play video games using raw pixel values as input with deep reinforcement learning.
2016	**IOT SPHERICAL ROBOT BY BAE SYSTEMS** Second Year Prize Winner Live stream sensors feedbacks and first-person video feed, controlled gyroscopically via a web app.
2015	**IBM's MASTER THE MAINFRAME CONTEST** Part 2 Prize Winner Programming and debugging mainframe programs.

Skills

Programming	Python, C, MATLAB, LaTeX, Solidity (Smart Contract) Embedded Programming, Web Applications
Machine Learning	TensorFlow, Keras Deep Neural Network, Reinforcement Learning, Computer Vision
Others	Blockchain, Smart Contract, Cryptocurrencies
Languages	English, Mandarin Chinese, Cantonese Chinese, Malay)