

## Premsupapong (Guy) Vanitcharenthum

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Sathorn Road, Sathorn, Bangkok, Thailand 10120

## Education

**Durham University, Durham**

2018 - 2021

BSc in Computer Science and Mathematics (within Natural Sciences) - Year 1/2 Grade: 78%/76%

Notable modules:

- *Deep Learning and Reinforcement Learning*
- *Recommender Systems*
- *Software Methodologies (AI, ML, Graphics)*
- *Network and Systems (Networks, Security)*
- *Cryptography and Codes*
- *Analysis in Many Variables (Multivariable Calc.)*
- *Monte Carlo (Simulation)*
- *Linear Algebra*

Self-studied modules: Theory of Computation, Parallel Scientific Computing

**Shrewsbury International School, Bangkok**

Class of 2018

A Level Sir David Lees Honorary Scholarship (4 A\*s in *Maths, Further Maths, Economics and Physics*)

IGCSE Honorary Scholarship (7 A\*s, 4 As, 1B)

## Professional Experience

**Dailitech, Intern** | Bangkok, Thailand

Aug - Sept 2019

- Developed a serverless [web-based service](#) that allow clients to verbally interact with a chat-bot through Amazon Web Services (i.e. Sumerian, Lex, Lambda), using Python and Javascript
- Implemented a chat-log for the service, integrating using Amazon API Gateway Websocket

**StockRadars, Intern** | Bangkok, Thailand

Aug 2017

- Created an interactive node diagram that show interactions between the major stocks and investors using Python, Javascript and SQL

**Integra8t (Beryl8), Intern** | Bangkok, Thailand

Aug 2016

- Trained on Android development and design, creating simple applications with Java and XML

## Skills

**Programming:** Python, C/C++, Git CLI w. some experience in Java, Javascript, Haskell, Octave**Libraries/Services:** has experience in GMP, SDL/OpenGL, WebGL, pytorch, scikit-learn and AWS**Bilingual:** fluent in both Thai and English

## Notable Projects

- **DL (Ongoing):** built VAE model to generate images of pegasus from STL10, CIFAR10 using PyTorch
- **RL (Ongoing):** trained an agent to play Atari's Gravitar game
- **ML:** trained and compared 2 different models for predicting exam outcomes
- **Security:** analysis of possible vulnerabilities, exploitations and mitigations on a sample server
- **simple-gallery:** simple, navigable image gallery for MacOS using SDL/OpenGL on C/C++

## Extra Curriculums

**STEMYouth Bangkok, Assistant Instructor** | Bangkok, Thailand

July- Aug 2019

Volunteered to assist with instructing lessons in Python and programming in general

- DU Blood Donation Society, *Sponsorship and Fundraising Officer 2019/20*
- DU Thai Society, *Treasurer 2019/20*
- Durham University Open Day Ambassador 2019
- **Other Areas of Interests:** Theoretical CS (e.g. Models of Computations, Formal Verifications, Computational Complexity), Cryptography, Number Theory and Abstract Algebra