

Premsupapong (Guy) Vanitcharenthum

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13 Crossview Terrace, Durham, DH1 4JY

Education

Durham University, Durham

2018 - 2021

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

Modules currently taking (Year 3):

- ComSci:** Design of Algorithms and Data Structures, Computational Complexity, Deep Learning and Reinforcement Learning, Recommender Systems
- Maths:** Number Theory III, Cryptography and Codes III

Modules completed include (Year 1/2):

- ComSci:** Computer Systems, Programming Paradigms, Networks and Systems, ...
- Maths:** Analysis in Many Variables II, Monte Carlo II, Linear Algebra I,

Self-studying Modules: Theory of Computation, Parallel Scientific Computing, Advanced CompSys, ...

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 AWS Sumerian, using Python, 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++ w. some experience in Java, Javascript, Haskell, Octave**Libraries / VC:** experience in SDL/OpenGL, WebGL, boto3 (AWS SDK), scikit-learn and Git CLI**Cloud Services:** experience in Amazon Web Services (AWS) - Sumerian, Lex, Lambda, API Gateway**Bilingual :** fluent in both Thai and English

Courseworks / Project

- Implementations and evaluations of **Integer Factorisation Algorithms** (Ongoing Final Project)
- Machine Learning** : trained and compared 2 different models for predicting exam outcomes
- Security** : analysis of possible vulnerabilities, exploitations and mitigations on example server
- Other coursework topics include: AI Search, Image Processing, Computer Graphics, Networks, Distributed System, Compiler Design, Systems Programming, ...

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
- Online courses completing/completed:

(Coursera) Introduction to Machine Learning, Quantitative Model Checking

Reference available upon request