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Premsupapong (Guy) Vanitcharenthum

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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

Other completed modules include (Year 1,2):

ComSci: Analysis in Many Variables II, Monte Carlo II, Linear Algebra I, Calculus and Probability I

Maths: Computer Systems, Programming Paradigms, Networks and Systems

Self-studied Modules: Theory of Computation, Complex Analysis II and Geometric Topology II

Shrewsbury International School, Bangkok Class of 2018

Studied *Maths, Further Maths, Economics and Physics* (4 A*s) in A Level

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 (https://d3k85ir1rjyxld.cloudfront.net/)
- Implemented a chat-log for the service, integrating using Amazon API Gateway Websocket

StockRadars, Intern; Bangkok, Thailand August 2017

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

Integra8t (Beryl8), Intern; Bangkok, Thailand August 2016

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

Skills

Programming Languages : 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

- Implementation and evaluation 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, Network, Distributed System, Compiler Design, Systems Programming

Extra Curriculums

STEMYouth Bangkok, Assistant Instructor; Bangkok, Thailand July- Aug 2019

Volunteered to assist with lessons by answering questions regarding Python or 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