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:
- *Network and Systems (Networks, Security)*
- *Deep Learning and Reinforcement Learning*
- *Computational Complexity*
- *Design of Algorithms and Data Structures*
- *Cryptography and Codes*
- *Number Theory*
- *(Abstract) Algebra*
- *Analysis in Many Variables (Multivariable Calc.)*

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

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

- **Integer Factorisation Algorithms (Final Year Project):** study, evaluate and explore possible improvements of factoring algorithms using C/C++ with data visualisations in Python
- **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
- Participated in: DurJam (Durham Game Jam) and Scott Logic's Bugathon (1st place in Round 2)
- **Other Areas of Interests:** Theoretical CS (e.g. Models of Computations, Formal Verifications, Computational Complexity), Cryptography, Number Theory and Abstract Algebra

Reference available upon request