# William Moses

Website: <a href="https://koufuku5k.github.io/Portfolio/">https://koufuku5k.github.io/Portfolio/</a> LinkedIn: <a href="https://www.linkedin.com/in/willmo5k/">https://www.linkedin.com/in/willmo5k/</a>

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# **Projects**

# **Quantum Computing**

- Learned the fundamentals of Quantum Computing.
- Utilized IBM's cloud quantum computing service Qiskit.

### **Human-Computer Interaction: UI/UX Design**

- Designed a wireframe for a website to exchange books using Adobe XD.
- Designed a Hierarchical Task Analysis (HTA) diagram to understand the necessary steps to be taken by users to complete a task within a service.
- Worked in a team of 4 to plan the general idea for our website and present it to the Professors.

#### Algorithm Design and Analysis

- Wrote multiple pseudocodes.
- Analyze and tracing famous algorithms such as: Insertion Sort, Quicksort, Binary search, and Hashing.
- Best-case, average-case, and worst-case time complexity analysis (Big O).
- String searching: Knuth-Morris-Pratt (KMP).
- Graph Algorithms: Depth-First Search and Breadth-First Search.

# **Scheduling and Networking**

- Programmed Job Queue algorithm for OS Process Scheduling.
- Utilized scheduling algorithms (Shortest Job First, First Come First Served, Round Robin).
- Learned about the Memory (Stack, Heap) and the Kernel.
- Learned about IPC and Concurrency.
- Sockets programming in C Language.

# **Experience**

### PT. PUTRAJAYA SUKSESGEMILANG

Jakarta, Indonesia

June 2022 – August 2022

#### IT Developer

- Developed new script and function to support company's system updates using Python. Classifying and calculating the number of products before storing the data into a table.
- Data manipulation and analysis of company's products.

# **Education**

#### **Bachelor of Science (GPA 3.86)**

Newcastle University, Newcastle upon Tyne, UK

September 2020 – June 2023

<u>Modules:</u> Quantum Computing, Human-Computer Interaction, Algorithm Design and Analysis, Operating Systems and Networks, Information Storage and Retrieval, Security Programming

### Awards, Certifications, and Activities:

2020 - 2023 | Vice-Chancellor's International Scholarship

2020 – 2023 | Member of Indonesian Student Association's Football Team

2021 | Python for Data Science Course by Schoters

2022 | "Building a Future from Video Games" public speaking

2023 | BSc in Computer Science, Specialised in Game Engineering with First Class Honours Classification

# **Technical Skills**

## **Expertise:**

- Python
- C#
- C++
- SQL
- HTML/CSS

### Other Programming Languages:

- C
- Java
- Go

### Spoken Languages:

- Indonesian (Native)
- English (Native)
- Japanese (JLPT N2)
- Chinese Mandarin (Basic)

## Other Skills:

- Full-stack Web Development
- Relational Database Design
- Computer System Design and Architecture
- Excellent in communicating and collaborating
- Great attitude in learning
- Creativity in finding solutions
- Punctual