

Khayle Torres

📍 37 Kilross Road, TW14 8SB London, United Kingdom ✉ torreskhayle@gmail.com ☎ 07474093736

in <https://www.linkedin.com/in/khayle-torres-6951011bb/> 🐙 github.com/kt1719

Education

MEng Electrical and Information Engineering

Imperial College London [🔗](#)

- First Year: 60.64 (Second Class)
- Second Year: 70.08 (First Class)

09/2019 – present
London, United Kingdom

A Levels

St Pauls Catholic College [🔗](#)

- Further Maths - A
- Maths - A*
- Physics - A

09/2017 – 06/2019
London, United Kingdom

Projects

MARS Rover Project [🔗](#)

- Combines multiple subsystems in order to make a fully autonomous Rover that can detect objects, send encrypted data to and from a server, and be controlled remotely using distance calculations or remote control

05/2021 – 06/2021

REST API Solo Project [🔗](#)

- Created a fully functioning backend service with a RESTful API that can provide on Pilot scheduling
- Made with .Net 5 SDK framework and coded in C#

02/2021 – 03/2021

C to MIPS Compiler [🔗](#)

- Lexer designed from scratch, Parser heavily influenced by ANSI C Parser
- Uses Flex, Bison, Make and C++ for the contents

02/2021 – 03/2021

MIPS CPU [🔗](#)

- Created two CPUs that follows the MIPS architecture specification (Revision 3.2). Asynchronous and Synchronous
- Avalon compatible memory interface

11/2020 – 12/2020

Neural Networks [🔗](#)

- Created a Neural Network in Python that would be able to perform linear regression to predict the value of a house based on some input features
- Used nested cross validation and hyperparameter tuning to get the obtain best performing model

Skills

Programming Languages

- C++ / Matlab / Python / Verilog / F# / C# (Advanced)
- C / MIPS & MU0 Assembly / Flex / Bison / Yacc / Lex / Optimization algorithms / SQL (Intermediate)
- HTML5 / REACT Expo + Native / (Beginner)

Other Skills

- Linux, Github, Bash scripts, Computer Vision Machine Learning, Neural Networks, AWS, Quartus Prime Lite
- Good with Physics scripting, Animation, UI in Unity
- Fluent in English and Tagalog

Awards

Best Optiver Market Making Hack (2nd Place) [🔗](#)

IC Hack 2022 - Largest student run hackathon in the UK

- Worked with a team of 5 to create the highest profit earning automated trading algorithm.

06/02/2022

Real Impact Hack (Runner Up) [🔗](#)

IC Hack 2022 - Largest student run hackathon in the UK

- Worked with a team of 5 to create a mobile app that allows users to report public incident discretely.
- A Detecronv2 is trained on our dataset and fine tuned working with a React native + expo mobile web app.

Professional Experience

Remote Academic Tutoring

Mytutor [🔗](#)

- Tutored multiple students in STEM related subjects. Primarily focused on Maths in both A level and GCSEs

10/2020 – present
London, United Kingdom

Internship

OTM Servo [🔗](#)

- Used CAD software to model a specific part of an actuator to get a better idea of model design
- Helped with the machinery and assembly of components

07/2018 – 08/2018
Surrey, United Kingdom