Khayle Torres

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Professional Experience

Software Engineering Intern   04/2022 – 09/2022
THG   Manchester,
- Nominated for Intern Of The Quarter ⬀   United Kingdom
- Assisted in speeding up the site by 6x which interested the CTO of THG (Performed a demo on my work)
- Worked on the R&D team on Full-Stack Dev, Dev ops and Cloud services
- Assisted in automated performance testing using Cypress, Chrome profiling and Calibre

Remote Academic Tutoring   10/2020 – 10/2021
Mytutor ⬀   London, United Kingdom
- Tutored multiple students in STEM related subjects. Primarily focused on Maths in both A level and GCSEs

Internship   07/2018 – 08/2018
OTM Servo ⬀   Surrey, United Kingdom
- 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

Awards

Real Impact Hack (Runner Up) ⬀
ICHack 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 Detectronv2 is trained on our dataset and fine tuned working with a React native + expo mobile web app.

Education

MEng Electrical and Information Engineering   09/2019 – present
Imperial College London ⬀   London, United Kingdom
- First Year: 60.64 (Second Class)
- Second Year: 70.08 (First Class)
- Third Year: 73.99 (First Class)

A Levels   09/2017 – 06/2019
St Pauls Catholic College ⬀   London, United Kingdom
- Further Maths - A
- Maths - A*
- Physics - A

Projects

C to MIPS Compiler ⬀   02/2021 – 03/2021
- Lexer designed from scratch, Parser heavily influenced by ANSI C Parser
- Uses Flex, Bison, Make and C++ for the contents

MARS Rover Project ⬀   05/2021 – 06/2021
- 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

REST API Solo Project ⬀   02/2021 – 03/2021
- 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#

MIPS CPU ⬀
- Created a MIPS CPU using Verilog
- Created Avalon Memory mapped interface to be used in conjunction with the CPU

Skills

Programming Languages
- *C++ / Matlab / Python / Verilog / F# / C# / Nuxt / Vue2 / HTML / Tailwind / Javascript (Advanced)*
- *C / MIPS & MU0 Assembly / Flex / Bison / Yacc / Lex / Optimization algorithms / SQL / CSS (Intermediate)*
- *HTML5 / REACT Expo + Native / PHP (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*