Samuel Adekunle

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Education

Imperial College London Sept. 2019 – June 2023

- MEng Electrical and Information Engineering
- First year: 74.6% overall (1st Class), 83% in programming
- 87% in **C++** group project: Designed and implemented a SPICE circuit simulator

Christ the Redeemer College Sept. 2012 – July 2019

- 3 A*s at A Level in Maths, Further Maths and Physics
- 7 A*s at GCSE; 8 A1 and 1 B2 at WASSCE
- Top in Nation Awards: Further Maths (A Levels and GCSE); Maths, Physics (A Levels); ICT (GCSE)

Work Experience

Imperial Junior Solutions London, UK
Web Developer July – September 2020

- Designed a full-stack platform for The Choral Hub using a **Next.js** frontend and a **Firebase** backend
- Implemented a proof-of-concept IOS application of the platform using **React Native** and **Expo**
- Worked on a team using kanban agile methods to visually track work and maximize efficiency

Fire Tech Camp London, UK
Coding and Technology Instructor March 2020 – Present

- Led week long online camps teaching topics like introduction to programming and artificial intelligence

Tard Engineering Lagos, Nigeria
Software Engineering Intern July – August 2019

- Responsible for designing the UI for KuangoQMS, a queue management system for hospitals and banks
- Designed UI with **Arduino** boards and implemented a HTTP client in **C++** on the board

Projects

Jamgo *(github.com/SamtheSaint/jamgo)* June – July 2020

- Created an open source minimal static site generator in **Go** for use in future projects
- Implementation uses concurrency and go plugins to achieve build speeds similar to Jekyll and Gatsby

ICACS *(icacs.co.uk)* July 2020

- Designed the Imperial ACS online platform using open source static site generator, Jamgo
- Platform includes user authentication, a CV platform, and an events management system
- Designed backend microservices using **Go** and **MongoDB** and hosted them **Heroku**

Image Denoiser *(github.com/SamtheSaint/Autoencoders)* August 2020

- Trained an Autoencoder Network in **PyTorch** to remove noise from images using the MNIST dataset
- Led an online workshop in collaboration with The AI Core to share the project with fellow students

Face Mask Detector *(facemask.samuel-adekunle.software)* May 2020

- Trained a classifier in **Python** to detect whether users are wearing a face mask
- Designed a proof-of-concept application in **React** to detect face masks in real time using the classifier

Skills and Interests

Languages: Proficient with C++, Python (Flask, PyTorch), Javascript (React.js); familiar with Go, C, SQL, MongoDB; previously used Java, Kotlin, Dart (Flutter)

Technologies: Experienced with Git, Unix/Linux; Proficient with Firebase, GCP, Heroku, Netlify, Vercel; previously used Hugo, Expo, Github Actions, Docker, Kubernetes, AWS

Extracurricular: Website Administrator '20/21 Imperial College ACS, Imperial College Debating Society, Table Tennis and Basketball Player