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's 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
- Awarded Top in Nation for all 3 A levels and 2 GCSEs (ICT and Additional Maths)

WORK EXPERIENCE

Imperial Junior Solutions London, UK
Web Developer, The Choral Hub July – September 2020
- Core developer of vocal training web app implementing a **Next** frontend and a **Firebase** backend
- Designed an iOS+android prototype for investors using **React Native** and **Expo** which raised £15,000
- Worked in agile sprints and used the Kanban method to visually track work, increasing productivity
- Utilised human-centred design principles while running multiple user tests to improve user experience

Fire Tech Camp London, UK
Coding and Technology Instructor March – July 2020
- Planned lessons for Introduction to **Python** Programming and Introduction to Artificial Intelligence

TARD Engineering Lagos, Nigeria
Software Engineering Intern July – August 2019
- Designed a human-computer interface using **C** and **Arduino** boards for a novel queue management system which improved user satisfaction and reduced wait times by over 50% on average
- Implemented a lightweight on board HTTP client to record user responses on a centralised **Java** server

PERSONAL PROJECTS

Jamgo *(github.com/SamtheSaint/jamgo)* June – July 2020
- Created an open source, minimal, command line, static site generator in **Go** for use in future projects
- Implementation uses concurrency and builds 10 pages in 0.461s and 100 pages in 4.235s

ICACS *(icacs.co.uk)* July 2020
- Built an online platform for the Imperial College African Caribbean Society with over 100 active users
- Served static assets using Jamgo and created backend microservices with **Go** hosted on **Heroku** leveraging concurrency and auto-scaling to allow for over 100 concurrent users during flagship events
- Platform includes live chat with committee members, an events management system and a CV platform

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 over 30 students

Face Mask Detector *(facemask.samuel-adekunle.software)* May 2020
- Trained a classifier in **Python** to detect if users are wearing a face mask with an F1-score of 0.81
- Designed a proof-of-concept application in **React** to detect face masks in real time using the classifier

SKILLS AND INTERESTS

Languages: Proficient with Go, C++, Python (Flask, PyTorch), JavaScript (React); familiar with C, PosgreSQL, MongoDB; previously used Java, Kotlin, Rust, Dart (Flutter)

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

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