

# Samuel Adekunle

[me@samuel-adekunle.software](mailto:me@samuel-adekunle.software) · +44(0)7493735158 · Flat 6 Oak House, East Finchley, London, N2 8EH  
[samuel-adekunle.software](https://samuel-adekunle.software) · [github.com/SamtheSaint](https://github.com/SamtheSaint)

## 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
- Utilized human-centred design principles while running multiple user tests to improve user experience

### Fire Tech Camp

London, UK

*Coding and Technology Instructor*

March 2020 – Present

- 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](https://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 to achieve build speeds similar to Jekyll and Gatsby

### ICACS ([icacs.co.uk](https://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](https://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](https://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, PostgreSQL, 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