Samuel Adekunle

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WORK EXPERIENCE

Google   London, UK
Software Engineering Intern   April 2022 – Present
- Refactored black box monitoring setup for Google Compute Engine using **Bash** scripts, making it easier to deploy new configurations, which increased testing coverage and confidence in the product
- Investigated and resolved several long-running (1 year+) issues with the internal **Python** monitoring and alerting framework, improving the affected failure rates from 100% to less than 1%

The Choral Hub   London, UK
Lead Developer   July 2021 – March 2022
- Responsible for day-to-day running of technology department of company which included managing daily scrum meetings, updating the product backlog and epic planning
- Developed an iOS only beta version of Tchzant in **Swift** which ran on a serverless backend infrastructure built in **Python** running on **Google Cloud**
- Designed a DevOps pipeline integrating **Jira**, **GitHub** and **Circle CI** that automated previously manually done workflows which resulted in a massive surge in productivity and drop in lead time

The Choral Hub   London, UK
Software Engineer   July 2020 – June 2021
- Developed a Web, iOS and Android prototype with **React** and **Firebase** for a vocal training app which helped raise money in subsequent funding rounds for further development
- Built and maintained the company's landing page with **Next.js** which became a key source of sign ups on the app's beta waitlist and tracked key user engagement metrics using **Google Analytics**
- Developed an iOS only alpha version of Tchzant in **Swift** with a **Firebase** backend, and ran multiple closed trials with external users to track and improve their experiences over time

SELECTED PROJECTS

Mars Rover · samuel-adekunle/Mars_Rover   June 2021
- Designed an encrypted WebSocket server with **TypeScript** and **Heroku** to enable secure and low latency two-way communication with the onboard rover computer
- Developed the rover command dashboard in **React**, which was primarily used to direct the rover around obstacles to a set destination with the help of the **Golang** path finding microservice

ICACS · icacs.co.uk   July 2020
- Built a platform for the Imperial College African Caribbean Society with **JavaScript** and **Golang** with live chat, an events management system and a CV submission platform used by over 100 active users
- Served static assets using Jamgo and created backend micro-services with **Golang** hosted on **Heroku** leveraging concurrency and auto-scaling to allow for over 100 concurrent users during flagship events

EDUCATION

Imperial College London   Sept. 2019 – June 2023
MEng Electronic and Information Engineering
- 94% second year compiler coursework; built a C99 to MIPS I compiler in **C++** and **Golang**
- 87% first year project; built a SPICE circuit simulator and graphing tool in **C++** and **Python**

The 16 Plus School   Sept. 2017 – July 2019
- 3 A*s at A Level in Maths, Further Maths and Physics; scored highest in Nigeria for all three subjects
- 7 A*s at GCSE; scored highest in Nigeria for Additional Maths and ICT

SKILLS AND INTERESTS

Technical – Proficient with C/C++, Python, Golang, JavaScript/Typescript, Bash, Swift; familiar with F#

Extracurricular – Student Ambassador 2021 & 2022, Generating Genius; Website Administrator 2021, Imperial College African Caribbean Society; 1st place at Imperial Novices Debating Competition 2019