Sultan Insan Geosrinov Muhammad Rifqi

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EDUCATION

University College London — **London, UK**
MSc Software Systems Engineering — *Sep 2024 – Sep 2025*

University College London — **London, UK**
BSc (Hons) Computer Science with Crime & Security Engineering as Minor **(First Class)** — *Sep 2021 – Jun 2024*
Dissertation: "Improving Android App Performance using Genetic Improvement"

WORK EXPERIENCE

Butterfly Air — **London, UK**
Mobile App Developer Intern — *Jul 2023 – Sep 2023*

- Led the development of the next version of the Flutter app by optimising and refactoring the entire codebase to minimise inefficiencies, reduce app size, eliminate bugs, and increase code readability by 60%, resulting in positive feedback from the team.
- Developed custom widget components, such as interactive buttons and graphs, and made them reusable across the app, accompanied by comprehensive documentation on their usage.
- Enabled multiple secure authentication methods to enhance user experience seamlessly using Firebase Authentication and Cloud Firestore, including Sign-in with Google, Apple ID, and Email/Password.
- Utilised Syncfusion Flutter package to create an intricate graph featuring dynamic gradient colours that represent real-time air quality data fetched from Azure Database.

Valley — **London, UK**
Mobile App Developer — *Dec 2022 – Sep 2023*

- Collaboratively developed a cross-platform mobile app using Flutter and Firebase that allows users to find their entrepreneurial counterparts.
- Independently designed and created chat features including real-time chat, a bubble indicator for new messages with smooth animations, and push notifications using Firebase Cloud Messaging.
- Implemented features that can upload editable and croppable profile pictures for users using Firebase Storage and Cloud Firestore with image compression that reduces the image size by 20%.
- Led the UI improvement by implementing user-friendly and minimalistic design enhancements to ensure a seamless mobile user experience, resulting in a 50% overall increase in usability based on user feedback.
- Used Provider as a lightweight state management to store, retrieve, and update data in real-time across the app.

PROJECTS

NHS Auto-chatbot | [Project Link](#) — **London, UK**
Team Lead — *Nov 2022 – Mar 2023*

- Led a team of 3 to build a chatbot generation service that can create a chatbot for any NHS trust website using React, Django, and MongoDB.
- Built information retrieving and web scraping tools to find optimal chatbot answers using Azure Functions, Bing API, Azure Language Service, IBM Natural Language Understanding (NLU), and Scrapy.
- Organised weekly meetings with clients and achieved a 40% monthly cost reduction by deploying the chatbot to IBM Watson Assistant.

'Code for Good' Hackathon - JP Morgan Chase | [Project Link](#) — **London, UK**
Full-Stack Developer — *Oct 2022 – Oct 2022*

- Helped Deafblind UK create a platform for deaf and blind people to connect and learn, contributing to the collaborative development of a full-stack web app using HTML/CSS, JavaScript, Flask and MySQL, featuring Google SSO Authentication, image magnification, text-to-speech, and high contrast mode.

SKILLS

Spoken Languages: English and Indonesian
Technology Stacks: Java, Python, Dart (Flutter), Kotlin, React, Django, JavaScript, Firebase, Azure, Figma.