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📍 Birmingham, UK | 📞 +44 07386808949 | ✉️ lmjobsmsg@gmail.com | 🔗 linkedin.com/in/lmnlmn

EDUCATION

University of Birmingham, *BSc Computer Science*

Birmingham, UK | 09/2024 - 06/2026

- **Current Attainment:** 3.25 CGPA | 2:1
- **Thesis/FYP:** Building Solar Studio, a web-based, accessible, immersive real-time solar system simulator using **React**, **Python APIs**, and **MongoDB**.

Singapore Polytechnic, *Diploma in Computer Engineering*

Singapore | 04/2021 - 04/2024

- **Attainment:** 3.54/4.00 CGPA (4.0 in Internship)
- **Coursework:** Python Programming for IoT, Mobile Applications Development, Client-Server Applications Development, Data Structures & Algorithms, Object Oriented Programming, DevOps for AIoT

EXPERIENCE

recapa, *Co-founder, Front-end Engineer*

Birmingham, UK | 07/2025 - Present

- Developed mobile app front-end in **React Native (Expo)**, implementing responsive UI components, state management with **Zustand**, and reusable design systems with **Tamagui/React Native Paper**.
- Integrated backend services via **Supabase APIs**, handling authentication, data flow, and secure storage.
- Architected system design, translating product specifications into functional, user-friendly features.

AutoveX Robotics, *Software Developer (Internship)*

Singapore | 09/2023 - 03/2024

- Led storyboarding and **UI/UX** design of an app and website, iterating on feedback to deliver user-friendly interfaces.
- Delivered a **Kotlin-based Android** application prototype for hotel delivery robots, designing intuitive screens and streamlining task execution.
- Built and integrated new features and **APIs** for automated robot control - door actuation, order-compartment tracking, and autonomous navigation - with rigorous onsite production testing.
- Assigned as **Agile lead** using **Jira** for task management, created **technical documentation**, and maintained delivery timelines in a fast-paced startup environment.

PROJECTS

Portfolio Website

Full-stack portfolio website using **MongoDB**, **Express.js**, **React.js**, and **Node.js** to showcase projects and skills.

Let's Go

Mobile app in **Java**, **MySQL**, **PHP** enabling travelers to share personalized itineraries and discover authentic experiences.

Jack's Possible

Website storefront using **HTML**, **SCSS**, and **JavaScript**, allowing users to browse products and process transactions.

Internet of Gardens

Smart garden prototype with **Raspberry Pi**, **Python**, sensors; automated watering, intruder detection, and real-time alerts via **Flask** and **Telegram**.

UoBuddies

Angular and **PostgreSQL** web app with **Docker** and **CI/CD** to help students form social groups before university events.

OTHER SKILLS

Languages: C++, TypeScript

Tools: Postman, Figma, Git

Frameworks: React, Material 3, JavaFX, Tailwind

AWARDS

- Encode London Oct 2024 | Koi Bounty Grand Prize Winner