

Rupesh Mall

SOFTWARE ENGINEER

rmail.dt@gmail.com • London, UK • Status: Settled (ILR) • <https://rmail.netlify.app>

A software engineer with over 3 years of experience in Web and Android application development, well-versed in JavaScript/TypeScript, Java, Kotlin, Python and the related tech stacks. Currently transitioning into Platform/DevOps engineering with a strong passion for solving complex problems and delivering value through innovative technology. Actively seeking new opportunities to expand my knowledge, apply my skills, and advance my career.

PROFESSIONAL EXPERIENCE

Tech Trainee (Cloud/DevOps) • Lafosse Academy

March 2025 – May 2025

- Completed a Cloud/DevOps deep-dive training programme gaining hands-on experience with infrastructure management, automation, and cloud technologies.
- Led a real-world project “a tool to view EV battery range with nearby EV charging stations” managing a GitHub Actions CI/CD pipeline to streamline code integration, testing, and deployment on AWS.
- Automated scalable infrastructure provisioning using Terraform and Kubernetes and handled server configuration with Ansible.
- Integrated the Azure Maps SDK, and developed backend logic to fetch Azure Map auth tokens, isochrone data and EV charging stations across the UK.

Freelance Web Developer • kchauk.com (Startup)

March 2024 – Aug 2024

- Contributed to a web platform, a community-driven knowledge-based forum for the Nepalese community specifically targeted for international Nepalese students studying in the UK. Designed and built UI components using TailwindCSS, Context API, and React Query. Discussed and collaborated on solutions to deliver a dynamic forum where people can access and create knowledge on various topics.
- Website: <https://www.kchauk.com>.

Android Developer • TATA Consultancy Services (Lloyds Banking Group)

Apr 2022 – Aug 2023

- Implemented virtual card component on account overview section.
- Enhanced personalisation in the account overview quick links by replacing static links with dynamic links powered by the Real-Time Interaction Management (RTIM) API.
- Delivered a proof-of-concept (POC) project by implementing a suggestive search feature and contributed to the gradual migration from the Android View System to Jetpack Compose.
- Collaborated in an Agile Scrum environment, actively participating in shaping and refinement sessions with the Product Owner (PO), Business Analysts (BA), and cross-functional team members.

Junior Web Developer • TATA Consultancy Services (Graduate Scheme)

Oct 2021 – Apr 2022

- Completed the TCS graduate training programme focused on Java applications and test-driven development.
- Contributed to the TCS in-house help desk web application, a part of the larger cross-functional TCS Ultimatix team. Refactored approximately 60% of the frontend codebase to make it modular and reusable using React.js, CSS modules, Redux and React Query. Utilised Jest for unit testing.
- Wrote and maintained tests for the existing Spring Boot codebase using JUnit and Mockito.

Android Developer Work Experience (Internship) • Corpus Ltd

May 2021 – Sep 2021

- Contributed to Android app development as a part of a larger team for a healthcare solutions provider.
- Contributed in migrating the Java codebase to Kotlin, including replacing Android AsyncTask with Kotlin Coroutines.
- Implemented features using the MVVM architecture, leveraging Android ViewModel for booking system. Integrated Google Firebase real-time data synchronisation.
- Conducted unit tests using JUnit4 and MockK, static code coverage with JaCoco, and API testing with Postman.

EDUCATION

BSc. Honours Computer Science • University of Hertfordshire

2019 – 2020

Final year project: AudioHub – real-time music collaboration mobile application (Java, Android). A simple collaboration application with audio record and playback, file sharing, and real-time messaging features using Google Firebase. Created with an aim to create, share, and work on projects involving audio files.

<https://github.com/rmalldt/audiohub-java>

HND Computing • Uxbridge College

2017 – 2019

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Bash, HTML, CSS, Java, Kotlin and C.

Library/Frameworks: React.js, Node.js (Express), Next.js, Tailwind CSS, Jest, Android SDK, Jetpack Compose, Kotlin Coroutines, Dagger Hilt, JUnit and Mockito.

Cloud and DevOps: Docker, Terraform, Kubernetes, Ansible, AWS

Database Management: SQLite, PostgreSQL and MongoDB.

Version Control, CI/CD and Project Management: Git, GitHub, GitHub Actions, Jenkins, Azure DevOps, Agile Scrum, Jira and Confluence.

PERSONAL PROJECTS

RangelQ

A tool built for current and prospective EV owners through which one can visualise the maximum range of an EV under a variety of travel conditions, such as start location, starting battery charge, number of passengers and weather conditions. Range is visualised as an isochrone polygon powered by Azure Maps, which can be regenerated with the user re-prompting the tool with a new starting location (postcode).

- GitHub: <https://github.com/rmalldt/group1-project>

Epok Collaboration App

An effort to create a collaboration web application with the functionalities similar to JIRA and Confluence (TypeScript, Next.js, Node.js with Express, Prisma ORM for PostgreSQL, AWS Amplify, Cognito and RDS).

- Github: <https://github.com/rmalldt/proj-mgmt-epok>

PERSONAL INTERESTS

Outside of work, I enjoy playing guitar and occasionally write and record music. I also maintain fitness routine through running and find walks great to relax and clear my mind.