

MAYUR DOKRAS

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Professional Summary

Software Engineer with 3+ years of industry experience and an MSc in Software Engineering (University of Southampton). Experienced in backend development, mobile applications, embedded systems and R&D projects, including secure API integration with UK Government datasets. Strong background in C/C++, Python, Android (Kotlin/Flutter), iOS (Swift), Linux systems and Agile delivery. Passionate about building scalable, secure, and high-performance software systems.

Relevant Work Experience

Backend Developer Intern – Malvox

University of Southampton

February 2025 - July 2025

- Designed and integrated secure RESTful APIs consuming UK Government databases, ensuring GDPR compliance and data protection.
- Collaborated with cross-functional teams to build and deploy production-ready backend services.
- Implemented authentication, authorization, rate limiting, and encryption to secure API endpoints, and developed, tested, and validated backend services using Visual Studio, CI/CD pipelines, and performance testing tools.

Associate II - Software Engineer

Capgemini Engineering

November 2021 - November 2024

- Worked within an R&D team, collaborating with senior engineers and directors on innovation-driven projects.
- Developed backend and embedded system components using C, C++, and Python, improving system performance and reliability.
- Worked extensively in Linux environments, supporting high-availability systems in Agile teams.

Freelance Mobile Application Developer

Self Employed

February 2021 - October 2021

- Built Flutter-based mobile applications including an E-commerce with admin apps and Gym Workout Assistant app.
- Integrated Firebase backend services, authentication, and offline data storage.
- Delivered end-to-end solutions from requirements to production deployment.

Education

MSc in Software Engineering

University of Southampton, UK – 2024/25

- Dissertation: Link2Feed — full-stack Android app using Kotlin, Jetpack Compose, Firebase, and UK Gov APIs.

Bachelor's in Information Technology (CGPA: 6.99)

AISSMS IOIT, India – 2018/20

- Developed an Image Re-Ranking Based on Topic Diversity web application using JavaScript, PHP, MySQL, HTML/CSS on Tomcat, applying Hash Map-based ranking techniques to improve search relevance; this work resulted in a published research paper on topic-based image categorisation.

Diploma in Information Technology (Percentage: 73.18%)

RIT Polytechnic, India – 2015/17

- Developed a Java-based steganography system using the LSB algorithm to securely embed messages in images while preserving image quality and data confidentiality.

Skills

- Technical skills : C, C++, Python, Java, ReactJS, Kotlin, Swift, Jetpack Compose, Dart, JSON, UI Design
- Tools: Android Studio [intermediate], Visual Studio [intermediate], Xcode [intermediate], Figma [intermediate], AWS[beginner], Firebase[intermediate], draw.io [expert]

Certifications

- Java Object-Oriented Programming (Linkedin 2021)
- Amazon Web Service S3 Bucket (Coursera 2021)
- Agile Software Development (Coursera 2022)
- Dart Functions Framework (Google Cloud 2023)
- Cloud Computing (IBM 2023)