

# Aayan Azfar Aboobakar

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Second year BSc Computer Science student at Queen Mary University of London. Interested in Data Analysis, Cyber Security, Software Development and Machine Learning

## EDUCATION

### Queen Mary University of London

September 2024 – June 2027

BSc (Hons) Computer Science

- Predicted First Class Degree with 82% achieved in the first year.
- *Relevant modules:* Algorithms and Data Structures, Operating Systems, Software Engineering, Database Systems, Probability and Matrices, Internet Protocols and Applications.

### Dubai English Speaking College

September 2022 – June 2024

A Levels

- Achieved A\*A\*A in Mathematics, Computer Science, and Economics respectively.

## EXPERIENCE

### Queen Mary University of London

September 2025 – Present

Lab Demonstrator – London, United Kingdom

- Supported over 400 first-year Computer Science students in understanding core programming concepts.
- Assisted students through coding exercises, debugging, and problem-solving in a clear and supportive manner.
- Provided one-to-one support to students during lab sessions, catering to different learning styles.
- *Relevant modules:* Procedural Programming.

### RAKBANK

August 2025

Information Security Intern – Dubai, UAE

- Applied networking fundamentals (OSI model, TCP/IP, protocol behaviour) to analyse system and traffic-level interactions.
- Conducted controlled port scanning to identify exposed services and potential attack vectors.
- Researched OWASP Top 10 vulnerabilities (e.g., injection, XSS) and documented mitigation strategies.
- Used Burp Suite to intercept and analyse web traffic, producing a short security findings report with key risks and recommendations.

## PROJECTS

### Employee Management Portal App

<https://github.com/AayanAboobakar/WorkGate>

Java, Spring Boot, React, SQLite

- Collaborated in a group project to develop a full-stack employee management portal using React, Spring Boot, and SQLite.
- Implemented features including timesheets, leave requests, expense claims, HR reporting, and IT support workflows.
- Designed RESTful APIs and reusable React components to support authentication, dashboards, filtering systems, and responsive user interactions.

### Portfolio Website

<https://aayanaboobakar.com>

HTML, CSS, JavaScript

- Developed a portfolio website to showcase my projects, skills, and achievements.
- Focused on creating a clean, intuitive, and responsive user interface that improves navigation and accessibility.
- Implemented interactive features such as a contact form to help users easily reach out and connect.

### Quiz Brain - iOS App

<https://aayanaboobakar.com/quiz-brain>

Swift, SwiftUI

- Developed and published Quiz Brain, an iOS general knowledge quiz app in Swift featuring category-based rounds, varied difficulty levels, and a large multi-category question bank.
- Implemented gameplay systems including streak tracking, performance statistics, adjustable round lengths, and dynamic question randomisation.
- Designed a polished and responsive SwiftUI interface with smooth navigation, premium-style visuals, and support for both light and dark modes.

### Weather App for Construction Workers

<https://github.com/AayanAboobakar/weather-for-construction>

React, CSS

- Built a React + Vite weather dashboard tailored for construction environments, delivering real-time conditions, forecasts, and safety-focused alerts for on-site decision-making.
- Integrated OpenWeather API with geolocation, manual search, and fallback city support to ensure consistent and reliable location-based weather data across different usage scenarios.
- Designed a responsive, mobile-first UI using Tailwind CSS, supporting unit toggles and location comparison to enable fast, practical interpretation of site risks.

## SKILLS

### Technical Skills

- **Programming Languages:** Java, Python, C++, Swift, JavaScript, HTML/CSS
- **Frameworks and Tools:** React, Spring Boot, Git/GitHub, SQLite, Maven
- **Concepts:** Object-Oriented Programming, REST APIs, UML, Data Structures & Algorithms, Web Development

### Leadership and Achievements

- **Certification and Awards:** Dubai Schools Hackathon 2024 Winner, UKMT Gold Award, Multiple-time Cricket Player of The Season, HackerRank Python Certification, HackerRank Java Certification
- President of Queen Mary Cricket Club.
- Led the organisation of TEDxDESCYouth 2023.