

# Hadeel Omar

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Aspiring Software Engineer in 3rd year of Computer Systems Engineering at Queen Mary University of London. Passionate about creative technology and its applications to the entertainment industry

## EDUCATION

### Queen Mary University of London

September 2023 – June 2026

BEng Computer Systems Engineering (Hons):

- **On track for 1<sup>st</sup> Class (83% achieved in 1<sup>st</sup> year):** Relevant Modules: Algorithms and Data Structures, Object-Oriented Programming, Operating Systems, Graphical User Interfaces, Software Engineering, Procedural Programming, Microprocessors Systems Design, Analogue Electronic Systems, Communications and Networks, Software Engineering Project

## WORK EXPERIENCE

### Warner Bros. Discovery

London

Software Development Engineering Intern - HBO

June 2025 – August 2025

- Software Engineering Intern in the Global Customer Experience Apple Engineering team for the HBO Max streaming service.
- Managing agile tasks related to UI components, conducting comprehensive testing, refactoring features and improving code modularisation and performance all using the Swift programming language.
- Performing simulator and on-device testing on the Apple Vision Pro, iPhone, iPad and Apple TV.

### Queen Mary, University of London

London

Laboratory Demonstrator/Teaching Assistant

September 2024 – December 2024

- Selected due to high academic achievement to facilitate the administration of the module ECS408 Electronic Engineering Mathematics 1, delivering weekly tutorials, marking weekly assignments both formative and summative and providing feedback to over 20 students.

### BNY

London

Xperience Technology Intern

July 2024

- Gained knowledge of the in-house generative AI model Eliza, powered by NVIDIA's DGX SuperPOD, understanding 3 key applications in the banking industry which improved understanding of how generative AI can process and analyse large datasets.
- Shadowed 5 professionals, 2 in software development and 3 in FX sales and trading and learnt more about their roles and the intersection of technology and finance and how technology can advance banking.
- Developed presentation skills and delivered a 10-minute presentation to a panel of BNY employees on how corporations can attract and retain young talent.

## PROJECTS & SKILLS

### FDM Timesheets Application - React | Typescript | Prisma ORM

- Directed a team of 6 to develop a full-stack website for FDM employees using the Agile methodology, accommodating the timesheets process, as part of the ECS506 Software Engineering Project module.
- Spearheaded the development strategy using the Agile methodology, via weekly stand-up meetings to ensure timely delivery of the app.
- Presented to FDM Stakeholders and achieved 1<sup>st</sup> place in the Software Engineering Project competition out of 7 groups.

### Weather Application for Pilots - React | OpenWeatherMap API

- Developed a responsive weather application in a team of 5 using OpenWeatherMap API to fetch and display data based on location.
- Prototyped designs using Figma and made documentation and a 10-minute video regarding requirements, design, and evaluation.

### Sprout Lands – Python | Pygame

- Developed a 2D farming simulation game, creating the setting of the game using Tiled.
- Implemented key gameplay mechanics such as player movement, tool usage and developed collision detection, timers for tool and seed usage and a dynamic animation systems for character actions and so further developed object-oriented programming skills.

### Inventory Management Application – React | Next.js | Firebase

- Developed a full-stack pantry tracking application as part of the Software Engineering Fellowship at Headstarter AI, developing front-end and back-end skills.

### Portfolio Website – HTML | CSS | JavaScript

- Developed a one page responsive portfolio website, using skills learnt from CodeFirstGirls' Introduction to Web Development course, animating the background with JavaScript's particles library.

**Languages and Technologies:** Java | Python | HTML | CSS | JavaScript | React | Next.js | TypeScript | Git | Java Swing | Pygame | Linux | Visual Paradigm | Cisco Packet Tracer | Prisma ORM | SQL | Figma | Blender | Swift

## ACHIEVEMENTS & INTERESTS

- Selected as a high potential undergraduate to be an upReach candidate on Tech500 springboard, improving professional development by attending video forums, workshops and insight days at partner companies such as Wellcome Trust and KPMG.