# Hadeel Omar

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Aspiring Engineer in 3rd year of Computer Systems Engineering at Queen Mary University of London.

## EDUCATION

**Queen Mary University of London**
*BEng Computer Systems Engineering (Hons)*                                                           *September 2023 – July 2026*
- **On track for 1st Class (81% achieved across 1st and 2nd 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**                                                                    *June 2025 – August 2025*
*Software Development Engineering Intern – Global Tech & Products*
- Refactored 10+ UI components and conducted software testing for HBO Max and discovery+ across iOS, tvOS and visionOS platforms using Swift, UIKit and XCTest for unit and snapshot testing.
- Delivered features soon to be deployed to 90+ countries, impacting millions of users globally.
- Created additional test files and test cases improving unit test coverage by ~5%.
- Collaborated in an Agile team to ensure timely delivery of updates and collaborated with QA engineers, product designers and product managers to deliver high quality updates.

**Queen Mary, University of London**                                                                  *September 2024 – Present*
*Laboratory Demonstrator/Teaching Assistant*
- Selected due to academic excellence to help teach ECS408 Electronic Engineering Mathematics 1 and ECS502 Microprocessors Systems Design.
- Delivered weekly tutorials, assisted in lab sessions and provided feedback to 20+ students on formative and summative assignments.

**BNY, London**                                                                                       *July 2024*
*Xperience Technology Intern*
- Analysed BNY's proprietary AI model Eliza (powered by NVIDIA's DGX SuperPOD) and the 3 key banking applications of generative AI.
- Enhanced understanding of generative AI capabilities in large-scale data processing and analysis.
- Shadowed 5 professionals across software development (2) and FX sales and trading (3).
- Explored technology-finance intersection and banking innovation opportunities.
- 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 1st place in the Software Engineering Project competition out of 7 groups.

**Weather Application for Pilots - React | OpenWeatherMap API**
- Built 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**
- Designed a 2D farming simulation game, creating the setting of the game using Tiled.
- Built core gameplay mechanics including player movement, tool usage, and collision detection systems.
- Implemented state-based animation systems and timers, enhancing object-oriented programming skills.

**Inventory Management Application – React | Next.js | Firebase**
- Created 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 – Next.js | Typescript**
- Developed a responsive portfolio website, using skills from the 8-week CodeFirstGirls' Introduction to Web Development course.
- Implemented CI/CD deployment workflows with GitHub Actions, improving deployment success rate and configured DNS settings.

**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 high-potential candidate due to academic excellence for upReach Tech500 springboard program.
- Enhanced professional development through workshops and insight days at Wellcome Trust and KPMG.
- Languages: English (fluent), Arabic (fluent)