

FARHAN KERIWALA

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EDUCATION

Masters in Science with Honors - Computer Science

Graduation Expected Jun 2026

Queen Mary University of London

- In my penultimate year of study to specialise in Web Programming (ECS639U), Further Object-Oriented Programming (ECS658U) and Neural Networks & Deep Learning (ECS659U).

Expected Grade: First Class Honours

GCE Advance Level

Sep 2020 - Jun 2022

Hazelwick School Sixth Form

- Studied Computer Science, Further Mathematics, Mathematics and Physics.

Final Grades: A*, A, A, A, A

TECHNICAL EXPERIENCE

Virtual Developer Experience - Accenture UK

Jan 2024 - Apr 2024

- Completed the Developer and Technology Job Simulation where I developed an end-to-end understanding of SDLCs.
- Created and delivered a compelling presentation analysing and comparing software methodologies.

Certification ID: sBuZvRfPJg9Gw5hma

Virtual Internship - Amazon Web Services (AWS)

Feb 2024

- Designed a simple and scalable hosting architecture based on Elastic Beanstalk for a client experiencing significant growth and slow response times.
- Described my proposed architecture in plain language ensuring my client understood how it works and how costs will be calculated for it.

Certification ID: sBuZvRfPJg9Gw5hma

Virtual Software Internship - Goldman Sachs

Dec 2023

- Identified that the company was using an outdated password hashing algorithm by cracking passwords using Hashcat.
- Wrote a memo for my supervisor summarising a range of proposed uplifts to increase the company's level of password protection, including extending minimum password length and using a dedicated hashing algorithm.

Certification ID: AvGmxNqk3HCTid66Q

Web Development Job Simulation - Moreton Bay Regional Council

Mar 2023 - Apr 2023

- Completed a job simulation involving website planning and creation.
- Created a sitemap and user-flow using a diagram creation tool and HTML & CSS to create a landing page.

Certification ID: LHLcf2KjB6bdnpfoo

WORK EXPERIENCE

EECS Demonstrator - Queen Mary University of London

Sep 2024 - Present

- In my role as an EECS Lab Demonstrator for Computer Science, I play an integral role in guiding and supporting students through various lab assignments and coursework projects.

Sales Associate - Sunglass Hut Luxottica

Jul 2022 - Oct 2024

- As a Sales Associate at Luxottica, an international eyewear leader, I consistently surpassed sales targets by leveraging strong interpersonal skills and in-depth product knowledge.
- I enhanced customer experiences through personalised eyewear solutions and promoted lasting client relationships.

PROJECTS

3rd Year Project

Aug 2024 - Present

- Developed a predictive stock price model using historical financial data and sentiment analysis, incorporating advanced feature engineering and machine learning techniques.
- Implemented and compared regression models to evaluate the impact of sentiment data on predictive accuracy, utilizing metrics like MAE and R².
- Automated data preprocessing pipeline for stock and sentiment data integration, including web scraping, natural language processing, and time-series alignment.

Technologies: Python, Scikit-learn, TensorFlow, VADER, Selenium, BeautifulSoup, Matplotlib, Git

Pharmaceutical Prescription Management System

Nov 2024 - Present

- A medical web application for prescription management.
- Designed to improve pharmacist efficiency and productivity.
- Full stack application with NHS API integration and authentication
- Technologies: Python, TypeScript, Next JS, SQL, Databases

CDR Map

Aug 2024 - Present

- An open-source initiative focused on raising awareness of carbon markets.
- A dynamic and interactive map, designed and implemented using Three JS and WebGL, to visually map out intricate details and relationships within the carbon market ecosystem.
- Spearheaded the front-end development all while making key contributions to the back-end development.
- Technologies: Python, TypeScript, Next JS, SQL, MongoDB

Real-Time Document Editor Application

Aug 2024

- Collaborative text editor where multiple users can edit the same document simultaneously with real-time updates.
- Users can add inline and general comments, with threading for discussions with notifications of document shares, new comments, and collaborator activities.

Technologies: Next.js, TypeScript, TailwindCSS, GoogleAuth, LiveBlocks, Clerk, Sentry

Next.JS Patient Management System

Jul 2024

- A platform that streamlines patient registration, appointment scheduling, and medical records, using complex forms and SMS notifications.
- Users can upload and store files securely using Appwrite storage services and Sentry monitors and tracks performance and detects any errors.

Technologies: Next.JS, Twilio, TypeScript, TailwindCSS

Neural Network SMS Text Classifier

Jun 2024

- A model to classify spam messages returning a tuple which indicated the likeliness of the message being spam and whether it is classed as spam or clean.

Technologies: Python, TensorFlow, Natural Language Processing (NLP)

SiteShield | Weather

Jan 2024 - Apr 2024

- A specialised weather web application for construction workers and contractors as part of a GUI module group project.
- Collaborating with 3 other developers to create a modern and responsive web application.

Technologies: JavaScript, React JS, Figma, TailwindCSS, API, Version Control (Git)

QMUL Feedback & Issues Hub

Jan 2024 - Apr 2024

- Software Engineering group project aimed at improving the current Feedback and Issues system at Queen Mary University of London.
- Leading a team of 7 to design a robust and efficient system ensuring students can easily apply for ECs, track ECs and report issues.

Technologies: UML, Java, React JS, JavaScript, TailwindCSS

ADDITIONAL INFORMATION

- Languages: English, Hindi, Gujarati, Urdu, Arabic (Limited Proficiency)
- Programming Languages: Python (Intermediate), Java (Proficient), JavaScript/TypeScript (Intermediate), React JS (Intermediate), C (Beginner)
- Courses/Certifications: Java Master Class by Tim Buchalka (ongoing)