

Saba Ghasemzadeh Hassankolaei

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A second-year Computer Science student at Queen Mary University of London, on track for a First-Class Honours degree. I am a quick learner, driven by curiosity, with a passion for AI, machine learning, and solving real-world problems through technology. Seeking internship opportunities to apply my technical skills and contribute to impactful projects, particularly in innovative AI solutions

Education

Queen Mary University of London

Sep 2023 – Jun 2026

BSc Computer Science (predicted grade: 1:1)

- **Relevant modules:** Procedural Programming: 76%, Computer Systems and Networks: 82%, Logic and Discrete Structures: 91%, Object Oriented Programming: 92%, Fundamentals of Web Technology: 83%, Automata and Formal Languages: 94%

City of Glasgow College

Sep 2022 – Jun 2023

HNC Computer Science (Grade: A)

- **Relevant modules:** Big Data, Team Working in Computing, Web Development: Dynamically Generated Content, Managing a Web Server

Projects

Task Manager App

- **Full-Stack Development:** Developed a task management app using Java, React, and Spring, enhancing both frontend and backend development skills.
- **Natural Language Processing (NLP):** Implemented NLP to categorize and prioritize tasks, improving automation features.

Image Classifier

- **Neural Network Development:** Developed a convolutional neural network (CNN) for image classification using TensorFlow, focusing on architecture selection and optimization for image data.
- **Model Training and Fine-Tuning:** Trained the model on a diverse dataset of images, utilizing transfer learning with a pre-trained model (e.g., VGG16) to enhance feature extraction and classification accuracy.
- **Performance Enhancement:** Implemented techniques such as data augmentation and hyperparameter tuning, achieving an accuracy of over 90% in classifying images into predefined categories.

Spotify Playlist Creator

- **AI Innovation & API Integration:** Developed an AI-powered playlist creation tool using the Spotify API and ChatGPT API, which curated music based on user preferences, anticipating Spotify's own functionality.
- **Web Development:** Utilized HTML, CSS, and Flask for building the interface, improving skills in both frontend and backend web development.
- **Problem Solving & Creativity:** Tackled the challenge of dynamically generating playlists, enhancing my ability to solve problems with AI-based solutions.

Technical Skills

Programming Languages: Python, Java, HTML, CSS, PHP; familiar with JavaScript, C++, SQL, C#.

Frameworks & Tools: Java Spring, React, Flask, AWS, TensorFlow, PyTorch; proficient in Microsoft Office; familiar with OpenCV.

Knowledge & Experience: Neural networks, transfer learning, computer vision techniques; AI programming concepts.

Languages: Farsi (Native), English (Full Professional Proficiency), Arabic (Limited Working Proficiency).

Experience

Teaching Assistant | Queen Mary University of London

Sep 2024 – Present

- **Technical Knowledge Sharing:** Provided academic guidance in lab sessions with +100 students per session, helping students understand and apply complex computer science concepts.
- **Mentoring & Leadership:** Offered support to first-year students, helping them navigate coding tasks and debugging, improving their confidence.
- **Problem Solving:** Assisted students with resolving programming challenges, sharpening my own troubleshooting and problem-solving skills.

Buddy Scheme Mentor | Queen Mary University of London

Sep 2024 – Present

- **Mentoring & Leadership:** Assisted 5 first-year students in overcoming challenges and acclimating to university life, providing academic and personal support.
- **Problem Solving:** Helped mentees navigate both academic difficulties and the challenges of adjusting to a new environment, fostering critical thinking and resilience.

Crew Member | Pepe's Piri Piri

Feb 2022 – Sep 2023

- **Customer Service & Communication:** Delivered excellent customer service by effectively handling inquiries, making personalized suggestions, and managing customer orders.
- **Teamwork & Collaboration:** Worked closely with colleagues to maintain smooth operations in a high-pressure environment, improving adaptability and teamwork.
- **Time Management:** Efficiently juggled multiple responsibilities, improving my ability to work under pressure and manage time effectively.
- **Operational Skills:** Gained proficiency in using a point-of-sale system and following health and safety standards in food.

Shop Assistant | Glasgow Children's Hospital Charity Shop

Jun 2022 – Sep 2023

- **Customer Service & Communication:** Assisted customers and handled transactions in the charity shop, contributing to a positive shopping experience.
- **Organisational Skills:** Managed inventory and ensured that the shop ran smoothly, improving my time management and operational skills.

Certifications and Awards

- **AI Programming with Python Udacity Nanodegree** | Nov 2022
- **AWS Machine Learning Foundations Scholarship** | Nov 2022
- **Hackathon Winner & Microsoft Presenter** | Apr 2024
Won a hackathon for a project translating YouTube subtitles into sign language. Presented at a Microsoft event, demonstrating strong teamwork and innovation.
- **Forage Entrepreneurship & Innovation: Web Development Job Simulation** | Mar 2024
- **Microsoft Prompt Engineering Challenge** | Mar 2024
- **IELTS Score 8** | May 2023