

# SHAYAN HAGHIGHI

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Computer Science student with predicted 1st class honours (avg. 85%), with hands-on experience in backend engineering, machine learning, and cloud automation. Strong interest in automated and isolated testing.

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## WORK EXPERIENCE

### Software Engineer - Mimecast

(09/2024-2025)

- Enhanced service reliability by developing a custom Spring Boot proxy, improving test reliability to 98%
- Delivered technical presentations to 40+ engineers and QAs, introducing our new testing strategies
- Created and managed multiple CI/CD pipelines for automated testing in containerised environments using Jenkins and Docker
- Automated Cucumber test generation for peripheral service, increasing coverage from 33% to 100%

### Teaching Assistant - University of Birmingham

(09/2025-present)

- Helped run lab sessions for over 500 students weekly for the Object Oriented Programming module
- Increased student satisfaction with the module by 12%

### Personal Tutor

(09/2023-2025)

- Tutored 4 students using tailored communication and teaching skills, adapting to students' diverse learning styles to distil complex ideas into understandable chunks
- Improved the students' predicted grades by 2 levels on average

## PROJECTS

 [github.com/ShayanHaghighi](https://github.com/ShayanHaghighi)

### Indoor Dog Tracker using Nest Cameras

- Built an end-to-end computer vision system using Google Cloud Pub/Sub and the Nest SDM API to stream and process 1000s real-time camera events daily for indoor dog tracking
- Trained and refined a custom YOLOv8 model, improving accuracy from 30% to 90%
- Integrated with Label Studio for easy labelling and automated model retraining with Jenkins pipelines, enabling accurate pet monitoring and automated model improvement

### NLP Entity-Linking-Based Note Taking App (in progress)

- Built a Spring Boot app for semantic note-taking with NLP-based keyword extraction and entity linking
- Integrated Wikipedia's category hierarchy to organise notes into interactive tree and graph views
- Implemented RAG-based natural language querying to let users search notes through an LLM interface, allowing for both intelligent knowledge organisation and semantic search

### Patient Data Management and Visualisation System (Hackathon)

- Developed with Flask, NextJS frameworks for rapid development, creating an MVP in under 12 hours
- Utilised Three.js library to display lesions on a 3D model and ApexCharts to provide summary statistics
- Presented our app in a sales pitch, placing us 2nd in a hackathon with 44 participants

## SKILLS

**Languages:** Java, Python, HTML5, CSS3, JavaScript, TypeScript, SQL, C, C#

**Frameworks/Libraries:** React, Spring Boot, PyTorch, OpenCV, Cucumber, NextJS, Flask, Angular, Three.js

**Tools:** Git, Docker, Jenkins, GCP, Redis, PostgreSQL, SQLite, MockServer, Label Studio

**Other:** Video editing (DaVinci Resolve), Photoshop, Persian (Native Fluent)

## EDUCATION

### University of Birmingham - Computer Science BSc

(09/2022 - Present)

- Module average - 85% (1st Class Honours)
- Key modules - Object Oriented Programming (100%), AI (95%), Security and Networks (93%)

### St. John the Baptist School

(09/2020 - 08/2022)

- A-Level Grades: A\* - Maths, Further Maths, Physics  
A - Psychology.