

Mohamed Elsayed

mme014@alumni.bham.ac.uk | [linkedin.com/in/mohamed-elsayed285](https://www.linkedin.com/in/mohamed-elsayed285) | <https://momo285.github.io/portfolio.io/>

EDUCATION

University of Birmingham

BSc in Artificial Intelligence and Computer Science, 2:1 (67%)

Birmingham, UK

Sep. 2021 – May 2024

SUMMARY

Software Engineer with strong foundation in **AI** and **Computer Science**. Experienced in full-stack development, with a focus on creating scalable, efficient solutions. Proven track record of leading technical projects and implementing AI-driven algorithms.

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), TypeScript, Java (basic), SQL

Frontend: React, HTML5, CSS3, Astro, Tailwind CSS

Backend: Node.js, Express.js, Flask, RESTful APIs

Databases: MongoDB, PostgreSQL

AI/ML: TensorFlow, scikit-learn, NumPy, Pandas

Other: Agile methodologies, Test-Driven Development, CI/CD

EXPERIENCE

Co-Founder & Technical Lead

Jan 2023 – Present

Valyfy

Birmingham, UK

- **Architected and developed** a full-stack career services platform using **React, Node.js, and MongoDB**
- **Implemented AI-driven job matching algorithms**, increasing match accuracy by 40%
- **Designed and optimized database schemas**, improving query performance by 30%
- Led code reviews and implemented **CI/CD pipelines**, enhancing team productivity and code quality
- **Reduced load times by 30%** through backend optimization and efficient data querying

Software Engineer

Jan 2024 – May 2024

MobiliseAI

London, UK

- **Developed backend services** for AI customer service bots using **Node.js and Express.js**
- **Implemented natural language processing algorithms**, improving bot accuracy by 35%

iOS App Developer Intern

May 2023 – Oct 2023

Elmalahy

Egypt

- **Developed a mobile app** for Egypt's largest theme park using **Swift and UIKit**
- Implemented **RESTful API integration** for real-time data updates and user authentication
- **Optimized app performance**, reducing load times by 20% and improving user satisfaction

PROJECTS

AI-Powered Job Matching System | Python, TensorFlow, Flask, React

2023

- Developed machine learning models for accurate job-candidate matching using **Python and TensorFlow**
- Implemented efficient data processing pipelines to handle large datasets
- Integrated the system with frontend applications via **RESTful APIs**

Distributed Weather Data Analysis | Python, AWS, Docker

2023

- Created a distributed system for processing and analyzing large-scale weather data
- Utilized **AWS services** for scalable data storage and processing
- Implemented containerization using **Docker** for consistent deployment across environments

CERTIFICATIONS & ACHIEVEMENTS

- Google Introduction to Gen AI and AI Essentials certifications
- Organized and led 2 university hackathons focused on AI and fullstack development, attended by 40+ students and industry professionals from Goldman Sachs, EY, Capco, and other leading tech companies
- **Increased student participation by 50%** in the second hackathon through targeted marketing and partnerships