

HAJAR NATIQ

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PROFESSIONAL SUMMARY

Computer Science student (AI & Software Engineering) with experience building software systems and contributing to technical communities. **Vice President of the university AI & Computing Society**, helping deliver ML workshops and student initiatives. Skilled in object-oriented design, data analysis, and web development, with a strong problem-solving background through competitive programming and participation in the **Moroccan Olympiads in Informatics**.

EDUCATION

BSc (Hons) Computer Science Sep 2024 - Present
University of Roehampton London, United Kingdom

Concentrations: Artificial Intelligence, Software Engineering, Modelling & Simulations

Relevant Coursework: Computing in Python, OOP, Mathematics, Operating Systems, Data Science and Cybersecurity.

EXPERIENCE

Bartender / Waitress May - October 2025
Common Pizza London, United Kingdom

- Delivered efficient and high-quality service in a fast-paced, high-volume environment, demonstrating strong reliability.
- Collaborated with team members to maintain smooth operations during peak hours and consistently meet service.
- Adapted quickly to changing demands while maintaining professionalism and customer satisfaction.

Founding Vice President 2025/26
AI and Computing Society | University of Roehampton. London, United Kingdom

- Co-founded and led the university AI society, organizing hands-on machine learning projects using Python and scikit-learn to apply data preprocessing, feature engineering, and predictive modelling techniques.
- Designed and delivered technical workshops on ML fundamentals including supervised/unsupervised learning, model evaluation, and Python-based data analysis, building a collaborative technical community across disciplines.

PROJECTS

E-commerce Database Analysis | [GitHub](#)

- Analyzed a real-world e-commerce dataset to extract meaningful insights and support data-driven decision making.
- Created complex SQL scripts for reporting, aggregation, and data analysis.
- Strengthened practical skills in database management, query optimization, and analytical problem-solving.

Veterinary Management System | C++ [GitHub](#)

- Designed and developed a complete clinic management system implementing full object-oriented program.
- Demonstrated And Implemented features including role-based access control, appointment scheduling, booking modification, cancellation, and pet record management.

Rational Taxi Agent in Grid-London | Python, NumPy, Matplotlib, Jupyter [Github](#)

- Built an intelligent taxi agent navigating a 7x7 grid map of central London, implementing and comparing BFS, DFS, and A* search algorithms for optimal route planning.
- Integrated Bayesian inference to model passenger uncertainty, calculating posterior dispatch confidence using prior probability, app signal reliability, and false positive rates.
- Developed an interactive multi-passenger dispatch simulator with real-time algorithm switching speed control, live scoring, and a color-coded animated grid.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML/CSS, C++ **Frontend:** React.js, Next.js, Tailwind CSS, Responsive Design
Backend: Node.js, Express.js, PostgreSQL. **AI/ML:** scikit-learn, Neural Networks, Computer Vision
Tools: Git/GitHub, VS Code, Docker, Linux, **Core Skills:** Full-Stack Development, AI/ML Engineering

HOBBIES & INTERESTS

• Reading Book • Traveling • Competitive Programming (MOI participant) • Dancing