

# ABDOLLAH HOSSEINI

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## EDUCATION

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**BSc (Hons) Computer Science with professional placement**, University of Bath Sep 2024 - Jun 2028  
**Member of:** Bath Computer Science Society (BCSS), Bath Coding Society (CodeSoc), Bath University Islamic Society (BUIS), Persian Society

**Year 2 Modules:** Advanced Programming, Algorithms and Complexity, Cybersecurity, Human-computer interaction 1 & 2, Machine Learning, Software Engineering, Visual Computing

**First Year Grade:** First Class Honours (80%)

**Secondary**, Dubai English Speaking College (DESS College) 2017 - 2024  
A Levels: Mathematics (A\*), Computer Science (A\*), Economics (A)  
GCSE: 9999887

## MODULES

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Artificial Intelligence, 74% — A year-long module providing in-depth coverage of key AI fundamentals. Topics included Breadth-First and Depth-First Search, the A\* Algorithm, **Constraint Satisfaction Problems**, and the **Naive Bayes Algorithm**.

Computer Systems Architecture, 75% — Covered the fundamentals of how the **internal components** of a **computer function**, their purposes, and their importance. Included an introduction to **operating systems** (OSs), their features, and why they are essential for computers to operate effectively.

Programming 1, 75% — An introduction to **functional programming**, which exposed me to a new way of thinking, problem-solving, and coding. Using **Haskell**, I learned how functional programming works and its benefits. Developing the ability to break problems down into functions and think **recursively** changed my approach to code.

Discrete Mathematics & Databases, 77% — Focused on the core **mathematics** required, alongside the principles of **databases**. Covered how **databases** are designed, implemented, used, and protected against security threats.

Programming 2, 83.5% — Introduced to **OOP** using Java. Key skills included string and file manipulation, implementing **data structures** such as linked lists, working with **threads** and understanding **deadlocks**.

Mathematics for Computation, 96% — Advanced mathematical topics relevant to computing, including **matrices**, calculus, L'Hôpital's Rule, and Taylor series, with an emphasis on **practical applications** in computer science.

## EXPERIENCE

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**Back of House Team Member** Aug 2025 – Present  
Nando's Bath, United Kingdom

- Prepared food and maintained kitchen operations in a fast-paced environment, ensuring high standards of hygiene and quality.
- Worked collaboratively with team members to meet demanding service times during peak hours.
- Managed stock rotation and kitchen organisation to support smooth restaurant operations.

**Treasurer** Jul 2025 - Present  
University of Bath Bath, United Kingdom

- Hosting and organising events for 500+ members, including Freshers' week, Grand Iftar and more
- Handling transactions upwards of £1000 between society members, managing capital and directing it towards events
- Secured external sponsorships and partnerships (e.g., One Ummah), significantly increasing funding capacity and reducing event costs.

**Summer Intern** Jun 2024 – Aug 2024  
Care Zone Trading Dubai, United Arab Emirates

- Designed and deployed a **Python-based inventory management system** to log shipment details in a **database**, seamlessly tracking for **30+ daily shipments**.

- Implemented efficient **record search and retrieval functions** using **NumPy**, optimizing performance and improving handling efficiency by **20%**.
- Applied **error handling**, **database queries** (SQLite), and **unit testing** to ensure reliability and maintainability of the system.

## PROJECTS

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### Stock Prediction

Aug 2025

Individual Project

Bath, United Kingdom

- Built an end-to-end workflow in **Python** to collect and clean stock market data using **pandas**, **NumPy**, and **yfinance**, with visualizations in **matplotlib** to track trends.
- Engineered predictive features including lagged returns, z-scores, and technical indicators (moving averages, momentum, Bollinger Bands).
- Trained and compared multiple models (**LSTM in PyTorch** and **Ridge Regression**), finding that gradient-boosted trees, **XGBoost**, delivered the best test performance due to the limited dataset size and the ability to tune hyperparameters.
- Benchmarked model accuracy using **directional accuracy (DA)** and **MAE**, showing improvements over persistence and buy-and-hold baselines.

### Calorie Wise

Mar 2025 - Apr 2025

Team Lead

Bath, United Kingdom

- Built and using HTML, CSS and Javascript for college students and adults struggling with meal plans. Combined with calorie and step count tracking.
- Led a team of 10 using GitHub and Jira, which allowed to coordinate tasks and manage progress of members
- Researched and designed a feature which helped with consistency; a competitive nature to dieting and healthy calorie tracking with friends. Over 70% of users found this feature helpful.

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## ACTIVITIES AND LEADERSHIP

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- **Hackathon Participant** — Worked in a 48-hour competition to create an educational analytics tool. Applied data-driven methods to identify weak performance areas across modules, helping educators prioritize teaching focus. Results showed improved student averages in previously low-scoring subjects.
- **Competitive Programming Enthusiast** — Solved 40+ problems across LeetCode and Codeforces, developing advanced problem-solving skills in algorithms, recursion, and dynamic programming. Regular participation honed speed and accuracy in coding under time constraints, while also improving skills for technical interviews.
- **Web Development Bootcamp** — Completed a 2-month hands-on program covering **HTML**, **CSS**, and **JavaScript**; built personal webpages with **React** and **Node/Express**; and gained experience with **APIs**, **databases**, and **SQL** through practical projects.

## TECHNICAL SKILLS

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Languages

Python, JavaScript, HTML, CSS, Java, Haskell, C, SQL

Libraries & Frameworks

Pandas, NumPy, Matplotlib, PyTorch, React, Node/Express

Tools

VSCode, Vim, Git/GitHub, Jira, AWS, Agile/SCRUM