

Jonathan Lupu

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Education

MComp (Hons) Computer Science - *University of Sheffield*

September 2023 – Present (Predicted 2:1)

Relevant Modules: Data-Driven Computing, Systems Design and Security, Logic in Computer Science, Functional Programming, Software Hut, Java Programming, Data Structures and Algorithms, Introduction to Software Engineering

A-Levels - *The Sixth Form College Farnborough*

September 2021 – June 2023

Computer Science (A*), Mathematics (A), Physics (A), Extended Project Qualification (A)

Technical Skills

- **Programming Languages:** Java, Ruby, Python, SQL, JavaScript, HTML/CSS
 - **Frameworks & Libraries:** Ruby on Rails, Spring Boot, Flask, Pandas, NumPy
 - **Tools & Platforms:** Git, GitHub, GitLab, VS Code, IntelliJ, PyCharm
 - **Databases:** MySQL, PostgreSQL, SQLite
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Projects

Ruby on Rails Web Application

- Created a 25-table relational database using Rails migrations for an audit automation system.
- Integrated backend controllers and frontend views, resulting in an increase in application functionality.
- Developed automated tests with 96% code coverage across a large-scale codebase.
- Collaborated in an agile team of 6, contributing to requirement gathering, user stories, and version control.

Python MNIST Image Classifier

- Engineered a classification system using PCA and K-Nearest Neighbour to classify 3,000 handwritten digit images.
- Achieved 93.30% accuracy on noisy data and 80.60% on masked data.

Java Spring Boot Band Management Platform

- Programmed a MySQL-backed web app for managing band members, performances, and inventory in a team of 6.
- Implemented RESTful APIs, MVC architecture, and core backend logic.

'Engineering: You're Hired' Project

- Designed an AI and IoT-based road safety system prioritising placement of emergency vehicles.
- Delivered presentations to academic and industry audiences.
- Attained distinction; strengthened communication and collaboration skills.

'Global Engineering Challenge'

- Designed a clean energy hub for a Cambodian village with a multidisciplinary team.
 - Led a team of 5 members to complete project deliverables on schedule, achieving a completion rate of 100% within the designated timeframe.
 - Awarded distinction; improved leadership and pitching skills.
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Extracurricular Experience

HackSheffield 9 Hackathon – 'Best Use of Git' Award

November 2024

- Learned to use Python Flask, and SQLAlchemy, whilst programming in an agile environment.
- Leveraged Git features (branches, issues, pull requests) to maintain collaborative efficiency.

IBM Python 101 for Data Science

October 2024

- Completed IBM's foundational course on Python for data science.
- Gained hands-on experience with Pandas and NumPy.
- Practiced real-world data manipulation and analysis.

IBM MQ Developer Essentials Workshop

March 2024

- Built inter-application messaging systems using Java.
 - Improved understanding of software integration and debugging.
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Work Experience

Bar and Catering Assistant – Sheffield Students' Union

September 2024 – Present

- Performed ID checks at large events (1,000+ attendees).
- Maintained service quality in high-pressure environments.

Rink Steward – Ozone Ice Rink

July 2024 – September 2024

- Managed bookings and payments for smooth customer experience.
- Ensured safety protocols, contributing to a perfect safety record.
- Collaborated with staff, building strong teamwork skills.

Instore Team Member – Domino's Pizza

February 2022 – September 2023

- Delivered excellent customer service at front of house.
 - Adapted quickly to different stations, enhancing multitasking.
 - Trained 3 new employees, improving team efficiency and streamlined onboarding process
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Hobbies & Interests

- **University Ice Hockey Team:** Built teamwork and rapid decision-making skills.
- **Former RAF Air Cadet:** Led group activities; developed leadership and discipline.
- **National Citizen Service (NCS):** Raised £1,600+ for charity through team initiatives.
- **Bronze Duke of Edinburgh Award:** Developed resilience through outdoor challenges.