

Joseph Adams

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Professional Profile

I am a student at The University of Edinburgh, currently in my 3rd year of undergraduate study in Artificial Intelligence and Computer Science. I am currently seeking an unpaid internship or placement anywhere in the fields of software development, data science, or artificial intelligence. I work easily and efficiently with others and I am adept at picking up new technologies and skills.

Education

The University of Edinburgh, BSc in Artificial Intelligence & Computer Science (*ongoing: 3rd year*)

Sept 2022 – Present

- **Relevant Completed Courses:**

- Foundations of Data Science (*statistics, machine learning, exploratory data analysis, etc.*)
- Discrete Mathematics and Probability
- Introduction to Algorithms and Data Structures
- Reasoning and Agents (*logic, planning, markov processes, etc.*)
- Calculus and its Applications
- Linear Algebra
- Object Oriented Programming
- Software Engineering and Professional Practice
- Introduction to Computer Systems (*assembly, computer architecture, etc.*)
- Cognitive Science (*convolution, neural networks, classification, etc.*)

- **Relevant Coursework:**

- Worked with others to carry out an investigation into university student satisfaction, using numerous data science techniques such as regression, clustering, and inferential statistics.
- Trained a neural network on both regular and irregular past tense verbs, in order to predict the past tense of unseen verbs.
- Used constraint solving algorithms such as *Backtracking* and *Arc Consistency 3*, as well as shortest path algorithms like A^* , to determine the order of deliveries and optimal routes for a fleet of delivery drivers.
- Used greedy algorithms to find solutions to problems like the *Independent Set Problem*, analysing their NP completeness and approximations. Additionally optimised sorting algorithms such as *Merge Sort* and data structures such as *Red-Black Trees*.
- Used PDDL and to model a formal planning problem involving a robot navigating and shopping in a supermarket environment.
- Created a university portal system with Java, that allowed users to navigate layers of FAQs, redirected questions to the appropriate staff, and utilised Lucene to handle search requests.

This year I am currently taking: *Machine Learning, Foundations of Natural Language Processing, Computational Cognitive Science, Computer Security, Professional Issues, System Design Project, and Informatics Large Practical.*

Williamwood High school, Highers

Aug 2016 – May 2022

- An A in *Higher Mathematics, Higher English, Higher Biology, Higher Computing Science, and Higher RMPS.*
- Elected Deputy Captain.

Personal Projects

Hate Speech Classifier

github.com/Joseeeeeeeeph/Hate-Classification

- Developed a hate speech classification model using a dataset of tweets and other online text. Tokenized the text, trained a neural network, and evaluated the model's performance.

- Tools Used: Python, Pytorch, Jupyter

Convolution Algorithm and Image Processor

github.com/Joseeeeeeeeph/Convolution-Algorithm

- Developed a fast image convolution algorithm, as well as tool for processing and converting bitmap images, in C. Implemented functionality for box blur, Gaussian blur, and Laplacian edge-detection.
- Tools Used: C

Technologies

Languages: Python, C++, C, C#, Java, Haskell

Software: PyTorch, Pandas, Linux, Git, NumPy, Matplotlib, LaTeX, Jupyter, HTML, CSS

Experience

Software-related Experience

Work Experience, John Grant @ Endava

July 2021 – July 2021

- Worked with server networking.
- Observed senior team meetings and their planning methods.
- Followed an experienced team member to learn job skills and listened to directives to complete accurate work.

Work Experience, Ailsa Hospital IT Department

Oct 2019 – Oct 2019

- Helped troubleshoot technical problems.
- Completed regular tasks and temporary assignments as directed.
- Listened to directives from senior staff to complete tasks and communicated clearly and efficiently to achieve them.

Other Experience

Retail Assistant, Holland & Barrett – Central Edinburgh

July 2024 – Sept 2024

- Helped customers find personalised solutions to their ailments and concerns. Gathered information about their condition and critically analysed the best products for them.
- Worked as a team to meet sales metrics and to carry out the logistics of maintaining the store.
- Created a warm and welcoming atmosphere for customers, wherein they felt comfortable discussing their concerns and where they felt we had made an impact.
- Completed training to become an expert on vitamins, minerals, macronutrients & micronutrients, and other health-related topics.

Retail Assistant, Oxfam – Clarkston, Glasgow

July 2023 – Aug 2023

- Operated the till and processed transactions.
- Worked as a team to meet sales targets.
- Helped customers and created a warm atmosphere.
- Consistently listened to and helped with customer's concerns in an understanding and impactful way.

Awards

- **Duke of Edinburgh Award:** Bronze

Soft Skills

- **Collaborative:** I am able to work effectively in a group setting, and excel at listening to and collaborating with others. I can adapt to different roles within a team efficiently.
- **Fast Learning:** I can pick up new concepts and technologies very quickly.
- **Problem Solving:** I am able to see problems from alternative perspectives and come up with creative solutions.