# 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 Artifical                                         Sept 2022 – *Present*
Intelligence & Computer Science *(ongoing: 3rd year)*

- **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.

## Personal Projects

**Convolution Algorithm and Image Processor**                github.com/Joseeeeeeeph/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

**[Project 2]**                                                                      github.com/name/repo

- text
- Tools Used: tools

**[Project 3]**                                                            Github link

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- Tools Used: tools

## Technologies

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

**Software:** PyTorch, Pandas, Linux, Git, Matplotlib, LaTeX, Jupyter, Selenium

## Experience

### Software-related Experience

**Software Assistant**, 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.

**Assistant**, 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 – Edinburgh                July 2024 – *present*

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**Retail Assistant**, Oxfam – Clarkston, Glasgow                  July 2023 – Sept 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.