

Uzma Hamid

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EDUCATION

Texas A&M University

College Station, TX

Bachelor of Science in Computer Science

May 2025

Coursework: Data Structures and Algorithms, Object Oriented Programming, Computer Organization, Operating Systems, Design Algorithms, Database Systems, Software Engineering, Artificial Intelligence

EXPERIENCE

Research Internship

Jun 2024 – Aug 2024

Stanford LINXS

Stanford, CA

Computer Vision Research Assistant

Jan. 2022 – Jan. 2023

Drake University

Des Moines, IA

- Led a research initiative focusing on image detection, object detection, and semantic segmentation
- Developed a fine-grain annotation tool by utilizing **Python** and implementing algorithms for **contour detection**, **polygon approximation**, and image manipulation
- Presented research findings at the **Consortium for Computing Science Conference**

Computer Technician

Jan. 2023 – Present

Texas A&M University

College Station, TX

- Communicate with managers to set up campus computers used on campus
- Assess and troubleshoot computer problems brought by students, faculty and staff
- Maintain upkeep of computer, deliver on-call support, effectively responding to technical issues

Teaching Assistant

Jan. 2024 – May 2024

Texas A&M University

College Station, TX

- Mentored **300+** students in Computer Science, resulting in **90%** passing rates
- Led interactive lab sessions to reinforce Program Design and Concepts in **C++**
- Provided hands-on assistance to students in applying concepts through programming assignments

PROJECTS

Revs | GitHub | *Python, Django, Jinja, PostgreSQL, JavaScript, HTML/CSS, Agile Methodology*

March 2024

- Developed a full-stack web application using the **Django** framework
- Constructed the entire website architecture, serving **HTML/CSS** and **JavaScript** as the frontend
- Integrated **Open Weather API** and Visualized **GitHub** data to show collaboration

Find Earth | GitHub | *Java, Node.js, OpenAI API, News API, Git*

Oct 2023

- Participated in **HackHarvard**; team of 4
- Constructed a web application that provides one-click access to **climate change news** about locations
- Implemented an AI news feature using **OpenAI API** and **News API**

Chip Visualization | GitHub | *Python, PIL, Numpy, Glob, Scipy*

May 2022

- Developed a Python program to identify image similarity identification
- Utilized deep neural networking and the **Euclidean distance matrix** to achieve an accuracy rate above **90%**
- Employed **VGG** and **ResNet50** datasets to increase the accuracy of image similarity calculations

LEADERSHIP

Project Manager

Aug. 2023 – Nov. 2023

Aggie Coding Club

College Station, TX

- Led a team of **10+** students in building a sophisticated book recommendation generator **web application**
- Trained students on utilizing the Django framework for backend and implementing frontend design principles
- Coordinated project **timelines**, tasks, and resources to ensure timely delivery of the web application

TECHNICAL SKILLS

Languages: Python, Java, C/C++, MySQL/NoSQL, JavaScript, HTML/CSS, R, SAS, PHP, Unix

Frameworks/Libraries: Django, JUnit, JavaFX, JavaSwing, NumPy, Matplotlib, OpenCV, Tkinter, Tensorflow, PIL

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, Eclipse, Emacs, Jupyter