SAFEER AHMED

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EDUCATION

University of Illinois at Urbana-Champaign   Expected May 2025
Master of Computer Science

University of Illinois at Urbana-Champaign   June 2021 – May 2023
Bachelor of Sciences in Liberal Arts & Sciences Major in Computer Science + Philosophy   GPA: 3.90/4.00

Purdue University   August 2020 – May 2021 (Transferred)
Bachelor of Science in Computer Engineering   GPA: 3.97/4.00

Related Coursework:

Software Design Lab	Data Structures	Computer Architecture	Advanced Symbolic Logic
Introduction to Algorithms & Models of Computation		Minds & Machines	System Programming

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, C, C#, C++, Python, VPython, MATLAB, MIPS Assembly
Frameworks/Tools: React, Next.js, Node.js, D3.js, SvelteKit, Unity, Unreal Engine 5, Git, Docker, Photoshop, Excel, Verilog
Spoken Languages: English, Urdu, Spanish

PROJECT HIGHLIGHTS

YouTube DataViz (Git, JavaScript, HTML5, CSS, React, Next.js, D3.js, Node.js, Google FireBase, AWS, YouTube API, Trello, Kaggle)   **January 2022 – May 2022**
• Constructed a robust website using cutting-edge JavaScript frameworks to develop dynamic functionality
• Critically analyzed data from trending YouTube videos with data pulled directly from the YouTube API
• Prioritized website to feature both modern and user-friendly UX
• Designed highly interactive data analysis via scatter plots, word clouds, and bubble charts

Bitcoin Alpha Analysis (C++, Git, Docker, SNAP)   **March 2022 – May 2022**
• Researched numerous large data sets via the Stanford Network Analysis Project (SNAP)
• Led team to maintain a strict deadline structure while maintaining best programming practices
• Supported members in overcoming programming obstacles via clear communication strategies
• Parsed all data from the Bitcoin Alpha data set into a graph to perform depth-first search (DFS), Dijkstra's, and PageRank algorithms to determine fraudulent activities in the network

Forest Forever (Unity Game Engine, C#, Git)   **August 2021 – December 2021**
• Led team by creating the core work environment with a testing framework necessary to ensure bug-free gameplay functionality
• Built crucial game components such as a modular save system, dynamic game objects, and modern graphics

Enzyme Model Algorithm (MATLAB, Microsoft Excel)   **January 2021 – May 2021**
• Directed team in extrapolating various modeled plots created by our algorithm into easy-to-understand figures for industry-wide usage needed by end-users and stakeholders
• Sustained both efficient and precise data analysis throughout the design process

VOLUNTEER EXPERIENCE

Muscular Dystrophy Association Volunteer/Assistant   **May 2019 – May 2019**
• Assisted in fundraising post-event activities including compiling/printing records of donations received, organizing paperwork, and data engry at one of MDA's offices
• Worked with MDA coordinators and assistants in making phone calls to various local businesses to request donations

EXTRACURRICULAR ACTIVITIES & LEADERSHIP

Humanity First at Illinois, Organization Member   **April 2022 – Present**
• Participated in meetings and webinars discussing strategies to assist in protecting human rights and dignity in areas impacted by natural disasters
• Assisted in researching and studying strategies to provide humanitarian aid to third-world nations with a focus on non-political, non-religious, and impartial national relief