

SAFEER AHMED

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EDUCATION

University of Illinois at Urbana-Champaign

Expected December 2023

Bachelor of Sciences in Liberal Arts & Sciences Major in Computer Science + Philosophy

GPA: 3.90/4.00

Purdue University

Transferred (2021)

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 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, etc. 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
- Currently assist 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