Dhruv Maniar

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EDUCATION

Texas Tech University, Lubbock, Texas   Anticipated Graduation – December 2024

Bachelor of Science in Computer Science | Minor in Mathematics

Relevant Coursework

Data Structures and Algorithms, Object Oriented Programming, Computer Architecture, Computer Networks, DBMS

EXPERIENCE

First-Generation Transition and Mentoring Program, Lubbock, TX

Marketing and Social Media Student Assistant   February 2023 – Present

- Create engaging content for FGTMP event promotions, including social media posts, graphics, videos, and infographics for various platforms.
- Analyze market data to generate reports and provide actionable insights for optimizing marketing strategies.

Archer Hotels and Resorts, Mumbai, India

Database and Web Engineer Intern   July – August 2022

- Organized the database management system within Microsoft Access, ensuring seamless integration with the Visual Basic 6 executable file.
- Developed a responsive web page for a digital menu card, employing HTML, CSS, JavaScript, and CorelDRAW to enhance the guest dining experience.

PROJECTS

Toby's Terror

- Led a team of 4 to design a 3D game environment and implemented game functionalities using C# in Unity.
- Implemented NavMesh and a finite state machine to enable the AI (Artificial Intelligence) foe to navigate the game world.
- Designed communication channels for the game user interface and implemented connected states for the AI engine to ensure an immersive gaming experience.

Valorant Discord Bot (HackWestTX)

- Directed a team of 4 to develop a Discord bot using Python and SQL for Valorant game players.
- Designed five functionalities including agent selection, map strategies and shooting tips.
- Deployed on GCP for availability to over 18M players worldwide.

Dual-Tone Multi-Frequency Encoder and Decoder

- Led a team of 3 to develop a decoder for telephone keypad digit sounds based on sound frequency analysis.
- Architected an algorithm in Python to apply Fast Fourier Transform on the sound signal to separate the frequencies by leveraging knowledge of Python Libraries such as SciPy, Numpy, Pandas and matplotlib.
- Analyzed and visualized data sets of over 280 WAV sound samples using frequency graphs.

Shortest Path Finder

- Architected an algorithm using Dijkstra's and Bellman-Ford algorithms to calculate optimal path.
- Computed data on campus map, building positions, and distances to create a graph.
- Translated data into algorithm usable format using buildings as nodes and inter-building distances as edges.

Portfolio Website: dhruvmaniar.me

- Developed a responsive, mobile-first website to highlight a digital portfolio.
- Utilized HTML, JavaScript, and CSS to create engaging user interfaces and effects.

SKILLS

- Technical Skills
    - Python, C, C#, Java, JavaScript, HTML, CSS   Google Cloud Platform, Git/GitHub, Bootstrap
- Certifications, Honors/Awards
    - UX/UI design (Google Developers Club), 100 Days of code (Udemy), Web Designing (Livewire)
    - Texas Tech Presidential Merit Scholarship, President's List, Dean's List