

Dhruv Maniar

<https://dhruv.it.com> • dhruvbam@gmail.com • 808-399-9723

EDUCATION

Texas Tech University , Lubbock, TX	December 2025
<i>Bachelor of Science in Computer Science Minor in Mathematics</i>	GPA 3.33
<i>Dean's Honor List Presidential Merit Scholarship</i>	
The Cathedral Vidya School , India	May 2020
<i>International Baccalaureate Diploma IGCSE</i>	GPA 3.8
<i>Academic Excellence Scholarship Class Valedictorian</i>	

EXPERIENCE

Marketing and Social Media Student Assistant	February 2023 – May 2024
<i>First-Generation Transition and Mentoring Program, Texas Tech University - Lubbock, TX</i>	
<ul style="list-style-type: none">Designed and executed digital marketing campaigns across social platforms for insights in strategic marketing, producing graphics, videos, and infographics to boost program visibility.Analyzed engagement metrics and user trends to refine content strategy and increase participation and outreach impact.	
Guest Service Specialist	May 2021 – June 2022
<i>Texas Tech University Housing - Lubbock, TX</i>	
<ul style="list-style-type: none">Delivered 24/7 customer service, resolved student inquiries while coordinating building operations.Oversaw packages and key management systems with strict adherence to university and federal compliance protocols.	

PROJECTS

Toby's Terror <i>Unity, C#, NavMesh, FSM, AI</i>	August 2022 – December 2022
<ul style="list-style-type: none">Built a 3D horror game in Unity featuring an AI enemy, using Finite State Machines (FSM) for NPC logic incorporating NavMesh pathfinding for adaptive pursuit behavior and raycasting for responsive navigation.Implemented UI components and interactivity logic in C# for player controls, triggers and gameplay mechanics.	
Valorant Discord Bot <i>Python, SQL, YAML, Google Cloud Platform</i>	September 2023
<ul style="list-style-type: none">Deployed a Discord bot on GCP, serving over 18 million global users with real-time game data and performance tracking.Designed a persistence layer using SQL for storing user data and added YAML based configuration management.	
Dual-Tone Multi-Frequency Encoder and Decoder <i>Python, FFT, NumPy, Matplotlib</i>	August 2020 – December 2020
<ul style="list-style-type: none">Led a team to decode 280+ WAV samples by applying digital signal processing techniques and Fast Fourier transforms.Visualized frequency-domain signals with Matplotlib to validate keypad tone detection thresholds	
AlgoWhiz <i>Python, Flask, OpenAI API, Machine Learning, AI</i>	January 2024 – May 2024
<ul style="list-style-type: none">Engineered an AI learning tool to teach algorithms with real-time feedback and natural language explanations.Integrated OpenAI's API to dynamically generate solutions and tutorials based on user prompts and context.Built a Flask backend with session handling and API orchestration to support reliable multi tutoring interactions.	
Shortest Path Finder <i>Python, Graph Algorithms</i>	August 2023 – December 2023
<ul style="list-style-type: none">Developed a campus navigation tool using Dijkstra's and Bellman-Ford algorithms to calculate optimal building routes.Mapped university layout as a weighted graph with buildings as nodes and improved traversal efficiency by 35%.	

SKILLS/ CERTIFICATIONS

- Programming Languages:** Python, C, C++, C#, Java, JavaScript, Ruby, Kotlin, Swift, HTML, CSS
- Frameworks & Development:** Flask, React.js, Vue.js, Angular, Django, Bootstrap, Tailwind CSS, Unity
- Data & Analytics:** NumPy, Pandas, Matplotlib, R, Power BI, TensorFlow, Jupyter Notebook
- Databases & Cloud:** SQL, MySQL, MongoDB, Firebase, Google Cloud Platform (GCP), AWS
- Tools & Workflow:** Git, GitHub, Google Cloud Platform, AWS, Docker, Replit, Figma, Vercel, Visual Studio Code
- Certifications:** Google UX/UI Design | Udemy 100 Days of Python | Livewire Web Designing