

EDUCATION

<b>JAMES MADISON UNIVERSITY</b> <ul style="list-style-type: none"><li>Bachelor's degree in Computer Science.</li></ul> <b>Current Semester CS Courses:</b> CS 444: Artificial Intelligence (AI) and CS 361: Computer Systems II	<b>EXPECTED GRADUATION:</b> Dec 2024
<b>NVCC</b> <ul style="list-style-type: none"><li><b>Dean's List:</b> NVCC Recognized for academic excellence by maintaining a 4.0 GPA.</li></ul>	<b>Aug 2019 - May 2020</b>

Professional Summary

Balancing entrepreneurship with college studies, my entrepreneurial spirit and success as a co-founder blend seamlessly with my academic pursuit in Artificial Intelligence (AI), showcasing my deep-seated ambition and forward-thinking mindset.

This dual path not only reflects my capability to take calculated risks and innovate but also highlights my commitment to continuous learning and growth in the AI domain. My keen interest in AI, underscored by my current studies and aspiration towards Virginia Tech's MEng program in AI/ML, demonstrates to forward-thinking companies my unique potential to both envision and drive future technological advancements.

**This combination of entrepreneurial success and dedication to exploring AI's cutting-edge signifies my readiness to contribute significantly to any organization's innovation and growth strategies, marking me as a distinctive asset in the tech industry.**

SKILLS

- Programming Languages:** Python, Java, C, C#, HTML, CSS, and JavaScript
- Development Tools:** Proficient in GitHub, Git, Unity for VR development, Flask and FastApi web frameworks, and experienced in unit and integration testing.
- Soft Skills:** Demonstrated excellence in documentation, debugging, and testing, underpinned by a strong proficiency in data structures and algorithms. Showcases a strategic approach to problem-solving and a steadfast commitment to delivering high-quality outcomes.
- Languages:** English, Urdu, and Punjabi

PROJECTS

- Catch Up, a Social Media Aggregation Web App (Ongoing Project):**
- As the lead backend developer for CatchUp, I am engineering a social media aggregation platform alongside my colleague.
  - This project aims to resolve the problem of social media app bloating by unifying content from various platforms, such as TikTok, Instagram, and YouTube, into a singular, streamlined interface.
  - My role encompasses backend development, focusing on API integration and the optimization of content display, to create a cohesive user experience across multiple social media channels.

- AI Customer Representative WebApp (Ongoing Project)**
- Currently developing an AI-driven customer representative system to automate and streamline order-taking processes in the food service industry.
  - This project leverages advanced speech recognition and natural language processing technologies to interpret customer orders over the phone, demonstrating a groundbreaking approach to enhancing efficiency and accuracy in order taking.
  - Designing a Python-based backend architecture that integrates with LLMs to process and understand customer speech accurately.
  - Creating a real-time database integration to record orders on the "Fiction Burger" website, facilitating order management and customer service.

- Modern Weather WebApp (<https://tinyurl.com/MuhammadK>)**
- Developed an elegant and dynamic weather application using Python and Flask, showcasing real-time data from the OpenWeather API.
  - Integrated dynamic weather icons and background videos that adapt to the current weather conditions, providing an immersive user experience.
  - Implemented a feature for quick access to weather information for major cities, facilitating user interaction and convenience.
  - This project highlights my ability to blend technical programming skills with creative design, demonstrating my versatility in web development.

- A\* Pathfinding Visualization:**
- Implemented A\* pathfinding in Python with Pygame, demonstrating its application in game development and robotics.
  - Enabled user interaction with grid for dynamic testing of algorithm's adaptability.
  - Utilized Manhattan distance heuristic for effective path calculation.
  - Employed priority queues and path reconstruction, supporting my data structure and algorithmic skills.

WORK EXPERIENCE

<b>Richland Northeast High School - Columbia, SC (ROTC)</b> <ul style="list-style-type: none"><li>During my time in high school ROTC, I took the initiative and fostered collaboration, building a motivated team. These skills have been crucial in my academic and personal endeavors, demonstrating the valuable leadership foundation ROTC provided, which has been instrumental in shaping the leader I am today.</li></ul>	<b>Jan 2016 - Jun 2016</b>
<b>May Jewelers - Shelby, NC (Co-Owner, Investor)</b> <ul style="list-style-type: none"><li>Established foundational business operations and secured critical vendor relationships, leading to sustainable business growth.</li><li>Leveraged my extensive family background in the jewelry business to provide valuable insight and mentorship to my business partner, contributing to informed decision-making and strategic planning furthering my role as a leader.</li><li>Actively engage in risk assessment and mitigation.</li></ul>	<b>Sep 2022 - Present</b>
<b>Gift &amp; Thrift - Harrisonburg, VA (Volunteer)</b> <ul style="list-style-type: none"><li>Leveraged technical skills to repair computer issues and enhance software compatibility, significantly benefiting visitors and the organization.</li><li>Engaged actively with clients to ensure a seamless service experience, facilitate a smooth donation process, and enhance overall service quality and donor satisfaction.</li></ul>	<b>Jan 2023 - Dec 2023</b>