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Education

University of Michigan

Ann Arbor, MI

Bachelor of Science in Computer Science

- **Coursework:** Web Systems, Introduction to Machine Learning, Programming & Intro Data Structures, Data Structures & Algorithms, Needs Assessment & Usability Evaluation, Database Management Systems, Intro to Computer Organization, Discrete Math
- **Certifications:** AWS Introduction to Cloud 101, AWS Machine Learning Foundations, AWS Introduction to Generative Artificial Intelligence
- **Programming Languages & Tools:** C++, Python, Flask, React, SQL, HTML/CSS, Jupyter, AWS, Docker, Git
- **Honors & Activities:** William J Branstrom Freshman Prize, 2x University Honors, CS Kickstart Program, SWE, IOTA STEM & Business, SASE E-board (Society of Asian Scientists & Engineers)

International Academy West

Bloomfield Hill, MI

- GPA: 4.0, SAT: 1530
- **Awards/Honors:** Valedictorian, International Baccalaureate Diploma Graduate, National Merit Finalist, Honor Roll Award, Northwood University Business Student of the Year Nominee, 2x DECA State Champion

Leadership Experience

MDP U-M CAEN AI & Machine Learning Project Team

University of Michigan

CloudOps & Prompt Engineer & PM

Present

- Collaborated with a multidisciplinary team to develop an AI-powered tool aimed at reviewing and ensuring compliance with grant submission requirements for University of Michigan faculty as part of the CAEN Grant Team.
- Built and deployed containerized applications using Docker, AWS Fargate, and Lambda to support scalable, serverless backend processing, which resulted in a 15% reduction in operational costs.
- Led sprint planning, which included managing timelines, prioritizing tasks, and ensuring alignment across development milestones, contributing to a 30% increase in team efficiency.
- Engineered and iterated LLM prompts to improve proposal error detection and compliance accuracy, leveraging OpenAI APIs and LangChain to increase the accuracy of compliance checks by 25%, measured through test results

Michigan Build and Launch Project Team

University of Michigan

Full-Stack Software Developer

Sept 2024-Present

- Developed a full-stack React and Flask desktop application for four-year course planning, enhancing student academic tracking and course planning over four years.
- Integrated University of Michigan's DegreeAudit & ScheduleOfClasses APIs to automate course validation and real-time scheduling, ensuring accurate, up-to-date scheduling for students and advisors.
- Designed and implemented object-oriented data models to manage academic records and optimize backend queries to improve data retrieval speeds, resulting in a smoother user experience for students.
- Worked alongside cross-functional teams (UX, business) in weekly Agile sprints to successfully deliver five major features that enhanced usability and contributed to an increase in user satisfaction.

MHacks Hackathon 2025

University of Michigan

Logistics Team

Present

- Spearhead logistical planning for MHacks 2025, one of the largest collegiate hackathons in the Midwest, expected to host 500+ participants
- Coordinated venue reservations, managed catering logistics, and organized transportation and equipment needs, ensuring 100% on-time delivery of all logistical components and contributing to a high-quality experience
- Collaborated with multiple sub-teams, including operations, sponsorship, and tech, to align timelines and resources, successfully facilitating cross-team communication and resulting in a 15% improvement in event efficiency and task completion rates compared to previous years.

Projects

Bank Transfer Simulator: Developed secure and efficient online banking infrastructure with real-time transaction processing, utilizing algorithms for fraud detection and balance management using hash tables and priority queues

Stock Market Exchange: Engineered a custom order matching system for a simulated stock market, optimizing trade matching and system performance through advanced priority queues, unit testing, and real-time monitoring features