Ayush Malpeddi Experienced Software Developer

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EDUCATION

University of Michigan (College of Engineering), Ann Arbor MI — *Class of 2025*
- Bachelor's in Computer Science; GPA: 3.5
- University Honors; Dean's Honor List
- Relevant Coursework: Data Structures; Programming Algorithms; Discrete Probability; Database Management Systems; Computer Architecture Fundamentals; AI & Computational Agents
- Projects: Image resizer using seam-carving algorithm; Euchre game supporting AI & Human player; Web server for office hour queue; Subject identifier using NLP & ML techniques; Grid escape game using multiple Priority Queue ADTs; Dictionary word converter using Breadth & Depth first search

International Academy East (International Baccalaureate Program), Troy MI — *Class of 2021*
- Summa Cum Laude Honors, GPA: 3.9

WORK EXPERIENCE

Veoneer (Formerly Autoliv), Southfield MI — *Software Engineering Internship*
September 2022 - December 2022
- Enhanced operational efficiency by automating internal tools through the development of Python scripts and algorithms using C++, resulting in an impressive 85% reduction in human input time.
- Acquired proficiency in design software pertinent to advanced driver assistance systems and AI LLMs training with data sets collected from human-machine interactions.
- Developed specialized knowledge in Restraint Control Systems (RCS) triggers for passive safety systems in automotive applications.

Dakotech, Ann Arbor MI — *Windows and Network Administrator Internship*
May 2024 - Present
- Provided desktop and end-user support by installing, troubleshooting, and resolving hardware and software issues for CPUs and laptops.
- Managed and monitored help desk ticket queues, achieving a 60% reduction in ticket volume by ensuring timely responses and effective solutions to customer requests.
- Worked with Windows Server administration, including managing Group Policy, Active Directory, as well as troubleshooting server error logs.
- Assisted with networking tasks and Microsoft Office 365, including occasional travel to customer sites for equipment setup and troubleshooting.

Mow and Blow LLC, Troy MI — *Co-Founder & Business Manager*
April 2023 - August 2023
- Achieved 35% higher profit margins, reduced operating costs by 15%, reaching profitability in 3 months; diversified operations to enhance business presence in market.
- Orchestrated business's website redesign, expanded brand presence on platforms (Facebook, Thumbtack Pro), secured recurring services, resulting in a 400% clientele increase.

PERSONAL SKILLS

- **Programming Languages: C++, Python, MATLAB, SQL, HTML, Javascript, LaTeX, Bash**
- **Tools: VS Code, Ubuntu, Git, Linux, Jupyter, Oracle (VM VirtualBox), Json, Overleaf**
- Microsoft Office & Google Workspace
- Milling, Welding, CNC, 3D Printing
- Logistics & Planning
- Building Window Computers Hardware
- Content Marketing & Communication Skills
- CAD Software (Solidworks)
- Data Analysis & Applied Statistics
- Process Automation
- Product Management
- Multilingualism: English, Telugu, Spanish

EXTRACURRICULARS

Robotics Competition — *Electrical/Fabrication LEAD, Primary Driver*
- Instructed and facilitated training sessions on welding techniques, CNC milling operations, CAD software utilization, and 3D printing methodologies for robots.
- Earned Innovation in Control Award by Rockwell and District Engineering Inspiration Award.
- Led the main drive team during the 'teleop' period in robotics competitions.
- Volunteered as coach for FLL & FTC matches, fostering the development of young robotics enthusiasts.