Dhruv Kekin Toprani

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EDUCATION

Michigan State University, College of Engineering (Honors College) Expected: **May 2027**
Major: *Bachelor of Science, Computer Engineering* | **Minor**: *Entrepreneurship & Innovation* | **GPA:** 3.9/4.0
Awards: Dean's List (4/4), Presidential Scholarship **(Top 1% @ MSU)**, Dr. Kun Mu Chen Memorial Scholar **(ECE Excellence)**

SKILLS

Data & Programming: Python, SQL, JavaScript, APIs, Pandas, NumPy, Flask, Firebase
Product: Roadmapping, A/B Testing, Agile/Scrum, Design Thinking, Market Research, PRD writing, User Interviews
Project Tools: Power BI, Tableau, Azure DevOps, GitHub, Figma, Confluence, Jira, Notion, Excel, Adobe Creative Suite

EXPERIENCE

Dewpoint *Lansing, MI*
Technical Product Intern Jun 2025 – Aug 2025
- Conducted market analysis to size a $1.2M per year opportunity; authored PRD and defined product strategy.
- Launched Network Operation Center in 6 weeks; aligned cross-functional teams to shape features and drive adoption.
- Built KPI dashboard (Power BI + Python) to track product metrics, translating raw data into business insights.
- Delivered technical demos of NOC to enterprise clients; captured feedback and integrated it into feature roadmaps.

Consumers Energy *Jackson, MI*
Software Engineering Intern May 2025 – Jul 2025
- Interviewed 10+ stakeholders to identify process gaps; led agile sprint to build a workflow tool; cut delays by 40%.
- Developed a tool (C#/.NET + SQL) to improve storm worker coordination by 35%, enhancing system reliability.
- Created AI-copilot for contract analysis; cut query time by 70%, wrote technical documentation to support adoption.
- Identified $300K per month workflow inefficiency; built an implementation plan and pitched MVP at intern summit.

D-CYPHER Lab (Focus: Human-AI Alignment) *East Lansing, MI*
Research Intern Feb 2024 – Present
- Automated experiment validation using AI-driven systems; accelerated tests by 400%, enabling rapid iteration.
- Simulated 1,000+ task allocation trials; analyzed collected data and applied results to real-world team models.
- Ran A/B tests vs. state-of-the-art benchmarks; analyzed tradeoffs to optimize task-specific algorithm selection.

PROJECTS

WattX | *(HackDearborn 3 Winner)*
- Built an automated P2P microgrid simulation to model decentralized energy exchanges and measure system load impact.
- Coded full-stack MVP in 24 hrs. (Python, Flask, Supabase, Fetch.ai); led product design and pitch for a 4-person team.

6Dot | *(MSU Designathon Winner)*
- Prototyped a pocket-sized Braille phone attachment with Arduino Nano that converted screen text to real time tactile output.
- Iterated 14 times in 36 hours with user feedback from visually impaired testers to validate value and usability.

Work Design for AI Agents | *(Accepted Research Paper, AI in Business Conference @ Ohio State University)*
- Pioneered the first theoretical framework for work design in AI agents, integrating organizational behavior & AI research.
- Created parametric platform to generate large scale datasets to validate theory through analysis across leading AI tools.

LEADERSHIP

MSU VEX-U Robotics Team| *Technical Program Lead* Aug 2023 – Aug 2025
- Engineered Python-based telemetry tool for match replay; drove root cause analysis and improved scoring by 20%.
- Planned and led sprints across software and hardware teams; qualified for VEX Worlds (top 5% globally).
- Directed 10+ K–12 outreach events; mentored 20+ volunteers and introduced 1,500+ youth to robotics.

Tower Guard Honor Society | *President* May 2024 – May 2025
- Led 80 members across 6 sub-teams; coordinated 6,000+ volunteer hours and raised $20K to expand disability resources.
- Prepared and presented a structured case to the Board of Trustees, securing direct accommodations in 60% of course offerings.