

Ethan Savar

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EDUCATION

The Ohio State University <i>Honors (B.S.) Computer Science Engineering, (B.S.) Mathematics</i>	May 2026 Columbus, OH
<ul style="list-style-type: none">• Integrated Business and Engineering Honors Program - GPA: 3.5/4.0• Relevant Coursework: Machine Learning (Graduate), Data Structures & Algorithms, Operating Systems, Databases, Data Mining, Linear Algebra, Stochastic Calculus, Real Analysis, Abstract Algebra, Statistics I + II	

EXPERIENCE

J.P. Morgan Chase & Co. <i>Software Engineer Intern</i>	June 2025 – Aug 2025 Columbus, OH
<ul style="list-style-type: none">• Built app that monitors trading workflow health in React and Spring Boot reducing mean response time by 20%• Prototyped downtime pattern detection models using Python and scikit-learn to identify recurring failure signals• Led hackathon team to build a fake news and sentiment AI model using PyTorch, achieving 91% analysis accuracy	
Immuta <i>Research Scientist/Engineer Intern</i>	May 2024 – May 2025 Columbus, OH
<ul style="list-style-type: none">• Improved sensitive data discovery by 36% and reduced error rate below 1% using finite automata theory in Python• Developed a semantic similarity clustering model in PyTorch and matplotlib enabling hierarchical data matching• Built a TypeScript service for SQL generation, streamlining testing across Snowflake, Databricks, and Redshift• Created a copilot evaluation tool using LangChain and AWS Bedrock to observe variability in subject capturing• Optimized AI policy copilot efficiency by 12% enabling cost savings between \$29k-\$240k annually	
The Ohio State University <i>Undergraduate Research Assistant</i>	Aug 2023 – Dec 2024 Columbus, OH
<ul style="list-style-type: none">• Applied stochastic differential equations to improve diffusion models for video generation motion consistency• Designed an uncertainty calibration method for LLMs that transforms logit outputs to estimate model confidence• Built a video analysis pipeline using Python, and CLIP enabling natural language search of scenes	

PROJECTS

IMC Trading Prosperity 3 <i>Python</i>	
<ul style="list-style-type: none">• Developed a trading algorithm for month long competition placing 284th out of ~15k teams globally and 77th in the United States (top 2%)	
FaceFrame <i>Python, MediaPipe, TensorFlow, OpenCV, Firebase</i>	
<ul style="list-style-type: none">• Built real-time AR tool to scan and classify face shape and overlay optimal glasses using MediaPipe and OpenCV• Integrated secure user authentication and session management using Firebase for login system• Collaborated with optometrists to pilot the tool in clinics, streamlining frame selection during patient consultations	
AutoTex <i>React, Tailwind, Electron, Ollama, PyTorch, Python</i>	
<ul style="list-style-type: none">• Developed an open source Electron application that uses Ollama to convert natural language into Latex• Created a lightweight CNN using PyTorch to analyze handwritten notes and pdf documents for conversion	
GroupViz <i>Python, Tkinter, Matplotlib</i>	
<ul style="list-style-type: none">• Built an interactive visualizer to simulate dihedral group actions and apply Burnside's Lemma on coloring problems• Enabled users to explore symmetries of up to D(12) and generate Cayley graphs using Tkinter and Matplotlib	

TECHNICAL SKILLS

Languages: Python, Java, Typescript, HTML/CSS, SQL, C
Frameworks: React, PyTorch, Next.js, Tailwind, Node.js, OpenCV, LangChain
Developer Tools: Git, Docker, AWS, Unix, Postgres, Maven, Jira, Jupyter
Hobbies and Interests: Catan, Euchre, Poker, Reading, Chess, Cooking, Pickleball