Ethan Savar

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EDUCATION

The Ohio State University — Columbus, OH
Honors (BS) Computer Science Engineering, (BS) Mathematics — *May 2026*
- **Honors Integrated Business Engineering Program**
- **Relevant Coursework:** Machine Learning (Graduate), Data Structures and Algorithms, Operating Systems, Stochastic Calculus, Linear Algebra, Differential Equations, Real Analysis, Abstract Algebra, Statistics I + II

EXPERIENCE

JPMorganChase | *Software Engineer Intern* — June 2025 – Present
- Incoming Summer 2025 in Asset & Wealth Management

The Ohio State University | *Undergraduate Teaching Assistant* — Aug. 2024 – Present
- Developed rubrics and graded homework across 4 sections of CSE 2331: Data Structures and Algorithms

Immuta | *Research Engineer/Scientist Intern* — May 2024 – Apr. 2025
- Optimized sensitive data discovery services by leveraging finite automata theory in Python, leading to an improvement in data classification by 36% and a decrease in error rate to less than 1%
- Developed a semantic similarity clustering model in PyTorch and matplotlib enabling hierarchical data matching
- Built a service in Typescript to generate SQL for integration testing across Snowflake, Databricks, and Redshift
- Developed a copilot evaluation tool using Python to observe variability in subject capturing and generations
- Created a generative AI synonym detection service using AWS Bedrock as part of Immuta's policy copilot

DataLab at The Ohio State University | *Undergraduate Research Assistant* — Aug. 2023 – Dec. 2024
- Researched applications of stochastic differential equations on diffusion models for video and image generation
- Developed uncertainty calibration technique applying transformations to LLM logit outputs for determining accuracy
- Created an engine leveraging OpenCV, Python, and CLIP to analyze videos and generate scene descriptions to enable searchable indexing of relevant video segments based on text queries

LEADERSHIP

Scarlet Investment Group | *Founder/VP of Quantitative Finance* — Oct. 2023 – Present
- Founded to provide students with hands-on experience and interaction with investment and quantitative finance
- Led team of developers to produce and back test algorithmic trading strategies and create risk evaluation tools

PROJECTS

IMC Trading Prosperity 3 Algorithm | *Python* — Apr. 2025
- Developed a trading algorithm for IMC Trading's month long competition placing 284th out of ~15k teams globally and 77th in the United States (top 2%)

Kernix | *C, Unix* — Dec. 2024
- Developed a Unix based kernel shell supporting core commands such as file creation, deletion and directory navigation, implementing processes, threads, mutexes, page tables, system calls and disk management
- Optimized performance by reducing command execution time through hash table lookups and caching algorithms

WageWise (Code For Good Hackathon) | *React, Flask, SQL, HTML/CSS* — Nov. 2023
- Developed a full stack employee management and payment application that allows users to login with their username and password to view company announcements, employee benefits, and payroll information

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Javascript, Typescript, SQL, HTML/CSS
Frameworks: React, Node.js, Flask, PyTorch
Tools: Git, AWS, Kubernetes, Docker, Mockaroo, Jupyter Notebooks, OpenCV