

Ethan Savar

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EDUCATION

The Ohio State University

Columbus, OH

Honors (BS) Computer Science Engineering, (BS) Mathematics

Expected: May 2026

- **Honors Integrated Business Engineering Program**
- **Relevant Coursework:** Machine Learning (Graduate), Data Structures and Algorithms, Operating Systems, Software Development, Linear Algebra, Differential Equations, Real Analysis, Abstract Algebra, Statistics I + II

EXPERIENCE

Incoming Software Engineer Intern

May 2025 – Aug. 2025

JPMorganChase

Columbus, OH

Research Engineer/Scientist Intern

May 2024 – Apr. 2025

Immuta

Columbus, OH

- 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
- Created a copilot evaluation tool using Python to observe variability in subject capturing and generations

Undergraduate Research Assistant

Aug. 2023 – Jan. 2025

The Ohio State University DataLab

Columbus, OH

- 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

Software Engineer Intern

May 2023 – Dec. 2023

Office of Technology and Digital Innovation at Ohio State

Columbus, OH

- Built a full-stack website administration platform using Vue and PHP to orchestrate 300+ managed websites
- Optimized API infrastructure decreasing query and load times for 10+ API calls from minutes to seconds
- Implemented Kubernetes RBAC policies to streamline platform security and decrease website onboarding time

LEADERSHIP

Founder/VP Of Quantitative Finance

Oct. 2023 – Present

Scarlet Investment Group at Ohio State

Columbus, OH

- 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 Prosperity 3 Trading Competition | *Python*

Apr. 2025

- Developed a trading algorithm in Python for IMC Trading's month long competition

CarGo | *React, Python, Flask, SQL, HTML/CSS*

Mar. 2025

- Developed a full stack application that allows users to lease cars for short and medium length periods of time

Kernix | *C, x86-64, Unix*

Nov. 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

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Javascript, Typescript, PHP, SQL, HTML/CSS

Frameworks: React, Vue.js, Node.js, Flask, Tailwind, PyTorch

Tools: Git, AWS, Kubernetes, Docker, Mockaroo, Jupyter Notebooks, OpenCV