Ethan Sargeant

(513)-846-0279 | ethantasargeant@gmail.com

linkedin.com/in/ethansargeant | github.com/tysarge | etysarge.com

EDUCATION

The Ohio State University | Columbus, OH   **May 2029**

B.S. in Computer Science and Engineering, Double Major in Financial Mathematics | GPA: 4.0
- **Courses:** Software Components, Software Development and Design, Discrete Math, Mathematical Statistics, Algorithm Analysis, Honors Engineering, Honors Robotics, Calculus 1-3

Indian Hill High School | Cincinnati, OH   **Aug 2021 - May 2025**

High School Diploma | GPA: 5.0/4.0
- **Activities:** Computer Science Team Founder (Top 3 in State), Machine Learning Club Leader and Teacher, Captain of Varsity Track & Field, Latin Club Leader, National Honors Society.

TECHNICAL SKILLS

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

Tools and Frameworks: Visual Studio Code, PyTorch, Git, Github, Cloudflare, Docker, Arduino, Pandas, Scikit Learn, Beautiful Soup, Numpy, Matplotlib, yFinance, OnShape, Eclipse

PROJECTS

UFC Fight Predictor | *Personal Project*   **Dec 2025**
- Developed 3 machine learning models to predict Ultimate Fighting Championship fight outcomes with 75% accuracy using historical fighter statistics and performance metrics.
- Implemented a web scraper for data processing, and predictive algorithms to analyze trends and improve prediction accuracy.

Financial Trading Algorithm Implementations | *Personal Project*   **Feb 2026 - Present**
- Implemented trading strategies including SMA crossover, EMA crossover, and RSI mean-reversion signals.
- Used a backtesting framework to evaluate strategy performance on historical market data and analyze metrics such as returns, drawdown, and signal effectiveness then refining parameters using Monte Carlo simulations.

Java Dequeue Component | *Personal Project*   **Jan 2026 - Present**
- Developing a complete and functional dequeue component for Java using existing OSU libraries.
- Currently designing and testing the data structure to ensure correct behavior, dynamic updates, and reliable iteration across stored elements.

Software Design Project | *Team Project*   **Nov 2025 - Dec 2025**
- Co-developed an interactive C++ game with a teammate for Honors Engineering I final project.
- Implemented falling-object gameplay mechanics and features for player interaction designed to promote environmental awareness while engaging users.

RELEVANT EXPERIENCE

Coding Power | Cincinnati, OH   **Aug 2024 - May 2025**

Ohio Branch Teacher
- Led weekly instructional sessions teaching Java programming fundamentals to ~30 students across Ohio through Coding Power, designing engaging lessons and guiding hands-on coding exercises.
- Contributed to initiatives and activity plans used in other branches across the country.
- Mentored students individually during hands-on exercises, encouraging both problem solving and confidence.