

Evan Cornell

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OBJECTIVE

Computer Science Engineering student at Ohio State University seeking a software engineering co-op or internship opportunity. Eager to contribute to a collaborative development team while applying both academic foundations in algorithms, systems, and data structures and hands-on project experience building full-stack web applications, data tools, and AI-integrated systems.

HONORS & AWARDS

Choose Ohio First Excellence in Computing Fellowship

Aug 2024

Competitive scholarship awarded for academic excellence in STEM, selected to strengthen Ohio's STEM workforce pipeline.

Dean's List

Dec 2024

Ohio State University — College of Engineering

SKILLS

Languages: JavaScript, Python, Java, C, C++, Ruby, MATLAB, Assembly, HTML/CSS

Frameworks & Tools: React, Vite, Zustand, Dexie.js, Ruby on Rails, Git, VS Code, Linux/Unix, Node.js

Data & ML: pandas, NumPy, Streamlit, data preprocessing, time-series analysis, statistical metrics, LLM API integration (Groq), prompt engineering

EDUCATION

Ohio State University — Columbus, OH

Expected Dec 2027

B.S. Computer Science Engineering | GPA: 3.72/4.00

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Web Applications, Discrete Structures, Digital Logic, Software Development

PROJECTS

Algorithmic Trading Backtester, *Python / pandas / NumPy / Streamlit*

2025

- Built a modular backtesting engine with an OOP strategy architecture — RSI, MACD, Bollinger Bands, momentum, and seasonal strategies each inherit from a shared base interface
- Implemented a macro regime engine that classifies market conditions and dynamically selects the best-performing strategy per regime; computed Sharpe ratios, max drawdown, and annualized metrics using NumPy and pandas
- Developed an interactive Streamlit web UI for real-time parameter tuning and results visualization, with CSV-cached price and macro data via pandas DataFrames

AI Goal & Vision Board, *React / Groq API*

2025

- Built a web app where users create personal goal and vision boards, with an AI assistant powered by the Groq API that generates actionable step-by-step plans for each goal
- Designed prompt logic and structured AI outputs to produce consistent, goal-specific responses; gained hands-on experience with LLM API integration, input/output design, and iterating on AI behavior

Personal Finance Planner, *React / Vite / Zustand / Dexie.js*

2025 – Present

- Built a full-featured personal finance web app with persistent local storage (IndexedDB via Dexie) and reactive global state management via Zustand
- Implemented budgeting, transaction tracking, and data visualization components in React; structured for extensibility and offline-first use

Audio Spectrum Analyzer, *JavaScript / Web Audio API*

2025

- Developed a real-time browser-based spectrum analyzer with octave band visualization and configurable FFT parameters
- Implemented signal processing logic from scratch using the Web Audio API, gaining deep understanding of frequency domain analysis

Wordle Game Clone, *MATLAB*

Oct – Dec 2024

- Designed and implemented a fully functional Wordle clone using MVC architecture and OOP principles in MATLAB
- Used containers.Map for efficient dictionary lookups and file I/O for asset loading; applied design-by-contract methodology throughout

Ruby on Rails Calculator, *CSE 3901 Web Applications*

2025

- Served as Integration & Architecture Lead on a team project; coordinated Git workflows, managed branching strategy, and integrated teammates' modules into a cohesive Rails application

EXPERIENCE

Course Grader / Teaching Assistant, *Ohio State University (CSE)* Columbus, OH Aug 2025 – Present

- Grade student software projects in Java, provide detailed feedback, host office hours, and lead midterm review sessions for 100+ students
- Evaluate code quality, design-by-contract adherence, and test coverage — developing strong attention to correctness and edge case thinking

Stocker — Produce & Meat, *Walmart* Columbus, OH Jun 2025 – Present

- Stock and rotate fresh produce and meat department inventory, ensuring product quality and compliance with food safety standards
- Coordinate with department leads to maintain stocking schedules during high-volume periods

Electrical Department Sales / Shift Manager, *Menards* Lewis Center, OH Dec 2021 – Aug 2024

- Managed day-to-day department operations including customer project planning, inventory, and team coordination as acting shift manager

LEADERSHIP

Treasurer, *Ohio State Audio Engineering Club* Apr 2025 – Present

- Manage sponsorship outreach, oversee event financial planning, and allocate funds toward engineering equipment and initiatives

Club Vice President & Founder, *Berlin High School Coding Club* Jan 2023 – Apr 2024

- Founded a competitive coding club and assisted classmates with LeetCode-style problem solving, algorithm concepts, and interview preparation
- Helped lead the team to a 10th place finish at the 2024 Baldwin Wallace ACM High School Programming Contest