

Ajay Wadhvani

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EDUCATION

University of Michigan

Ann Arbor, MI

B.S. Honors Mathematics and Computer Science

Graduating May 2028 — GPA: 3.97

- **Relevant Coursework:** Data Structures and Algorithms, Honors Analysis, Linear Algebra, Discrete Math, Combinatorics
- **Enrolled:** Web Systems, Machine Learning, Probability Theory, Computer Organization

EXPERIENCE

AI Engineering Intern

May 2026 – Aug. 2026

Blitzzy

Boston, MA

- Working on Blitzzy's engineering Research Team

Research Assistant

May 2026 – Aug. 2026

Thurber Lab, University of Michigan Chemical Engineering

Ann Arbor, MI

- Supporting ADC cancer-therapeutics research using C++ agent-based simulations and Python workflows.
- Building Python/Bash pipelines to convert Great Lakes ensemble outputs into structured CSVs and visualizations.

Director of Computer Science

Sep. 2023 – May 2025

Greater Boston STEM Program (gbSTEM)

Boston, MA

- June 2024 - May 2025 (CS Director): Managed a team of 15 instructors and worked with curriculum developers to create an engaging project-based curriculum for all of the Scratch, Python, and Web Development classes.
- September 2023 - May 2024 (Python Instructor): Taught online programming classes to a group of middle school students twice a week, guiding them through core programming concepts and hands-on projects.

Machine Learning Intern

July 2024 – Sep. 2024

Mass General Hospital

Boston, MA

- Developed and validated ML models in Python to identify sharp-wave ripples, an important biomarker in epilepsy research, from high-density EEG datasets (~10k multi-channel recordings, sampled at 1250Hz).
- Authored a 2,000-word paper detailing data processing and analysis, and presented results to faculty and peers.

PROJECTS

KTP App Development Committee Lead | *Flutter SDK, Dart, Firebase, Figma*

Sep. 2025 – Present

- Designed and implemented a member-tracking feature (20+ pages — iOS, Android and Web) using Flutter SDK and Dart as part of a collaborative development team for *Kappa Theta Pi*, a professional technology fraternity
- Optimized backend storage for 700+ users in Google Firebase, and created UI prototypes in Figma.

Healthcare Analytics Dashboard | *React, Spring Boot, Java, SQL, Tableau, TypeScript*

Sep. 2025 – Dec. 2025

- Built a full-stack web dashboard with a React frontend and Spring Boot backend for *Integrate Healthcare*
- Created data pipelines and embedded Tableau visualizations to display hospital billing and operations data.

Limit Order Book Simulator | *C++*

Jan. 2026 – Feb. 2026

- Built a discrete-event limit order book simulator implementing price-time priority matching with full support for limit, market, and cancel orders, including partial fills and dynamic book state updates.
- Processed 1M+ timestamped events to evaluate trading strategies through slippage and fill probability analysis.

TECHNICAL SKILLS

Languages: Python (NumPy, Pandas, Matplotlib, Scikit-learn), C++, Java, JavaScript (React, Next.js), Dart

Frameworks/Tools: Git, LaTeX, Flutter SDK, Spring Boot, Firebase

OTHER

Activities/Programs: Kappa Theta Pi, Professional Technology Fraternity (Coding Committee Lead), Michigan Investment Group (Quantitative Trader), MongoDB Next in Tech Summit (Selected Participant) — Summer 2026

Awards and Honors: William J. Branstrom Freshman Prize (Ranked in top 5% of class), 3rd Place in Michigan Quant Conference (Algorithmic trading strategy and trading games)