Nicholas Walvoord

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EDUCATION

University of Michigan — Ann Arbor, MI

B.S.E in Computer Science and Engineering, Mathematics Minor — Expected Graduation: May 2026

- **GPA:** 3.96/4.0
- **Coursework:** Data Structures & Algorithms, Web Systems, Computer Organization, Computer Science Pragmatics, Object Oriented Programming, Linear Algebra, Probability, Vector Calculus, Discrete Math

EXPERIENCE

Datadog — New York, New York

Incoming Software Engineering Intern — May 2025 − Aug 2025

Michigan Mentors — Ann Arbor, MI

Director of CS Program, Tutor; mzbtutors.com — Sep 2023 − Present

- Produced and taught free intro to computer science summer course for high school students with 28+ participants.
- Designed 6 weeks of lecture content and C++ exercises, guiding students through 8 units of foundational material.
- Planned and led personalized weekly school subject and standardized test tutoring sessions for 5+ ages 12-17.

miniExtensions — Ann Arbor, MI

Project Manager — Sept 2024 − Dec 2024

- Led team of 4 analysts to develop Airtable developer tools for 100k+ miniExtensions users with TypeScript.
- Architected 5+ extensions leveraging OpenAI, Google, Perplexity, and other APIs to conduct statistical analysis of datasets and provide custom recommendation functions for teams across marketing, sales, project management, and logistics.

Puppod — Remote

Software Engineering Intern — May 2024 − Aug 2024

- Crafted end-to-end machine learning application to visualize and interpret data from 130k+ user game sessions.
- Developed Python Flask app to predict 6 user data features based on 1 to 11 independent data features using Pandas and scikit-learn's random forest regression model. Deployed app on Heroku to enable prediction API requests from front-end.
- Generated novel web front-end with React.js and Next.js, utilizing Axois to request Flask app API for live prediction results.

Atlas Digital Consulting — Ann Arbor, MI

Software Analyst — Jan 2024 − May 2024

- Implemented in-house, standalone recruitment portal for new members with JavaScript and Vercel, streamlining workflows by eliminating 4+ dependencies and automating member tasks to save 20+ hours per recruitment cycle.
- Built 20+ web pages aligned with provided designs using React.js and MUI components, boosting total applications by 10%.
- Engineered back-end functionalities with Google Firebase, Firestore, and Authentication services, elevating app functionality by outlining admin, reviewer, member, and applicant levels of access and enabling platform scaling to 500+ applicants.

PROJECTS

ContribuTech - J.P. Morgan Chase Code For Good Hackathon — Oct 2024

- Spearheaded fullstack development of board member sourcing and matching portal using Node.js and MongoDB back-end API methods to facilitate novel and scalable client matching algorithm for 500+ Delaware nonprofit organizations.
- Devised and assembled 10+ dynamic React web pages with Google Oath login, ensuring a secure and seamless user interface.

Forum Posts Classifier — Apr 2024

- Designed and trained naïve Bayes machine learning classifier that reads and processes student posts via CSV files, calculates log-probability score of each post, and predicts labels for each given Piazza post with 87% accuracy (n=3000).
- Coded Map interface in C++ on top of custom Binary Search Tree and Iterator libraries to utilize as key data structures.

SKILLS & ADDITIONAL

- **Languages:** C/C++, Python, JavaScript/TypeScript, HTML/CSS, Julia, Matlab
- **Frameworks/Technologies:** React.js, React Native, Flask, Pandas, scikit-learn, Node.js, Firebase, Firestore
- **Interests:** Swimming, Water Polo, College Football, Jazz Music, NYTimes Games, Wikipedia Browsing