

# Nicholas Walvoord

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## EDUCATION

### University of Michigan

Ann Arbor, MI

*B.S.E in Computer Science and Engineering, Mathematics Minor*

Expected May 2026

- **GPA:** 3.96/4.0
- **Coursework:** Data Structures & Algorithms, Object Oriented Programming, Linear Algebra, Vector Calculus, Discrete Math

## EXPERIENCE

### miniExtensions

Ann Arbor, MI

*Product Manager*

Sept 2024 – Present

- Leading team of 4 analysts to develop **Airtable** extensions for 100k+ miniExtensions users with JavaScript.

### Puppod

Remote

*Software Engineering Intern*

May 2024 – August 2024

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

### Simbi

Remote

*Student Engineer – Develop For Good*

Jun 2024 – August 2024

- Evaluated **Simbi** website to itemize 200+ tasks for refactoring of 9+ year old mobile app. Collaborated with Engineering Manager to review 10k+ lines of code in team **GitHub** pull requests, ensuring a modular and clean codebase.
- Constructed and styled over 14 app pages, integrated custom **React Native** Drawer user navigation, and managed global user information storage and retrieval with **Zustand** and **Axios** libraries.

### Atlas Digital Consulting

Ann Arbor, MI

*Software Analyst*

Jan 2024 – May 2024

- Implemented in-house application and recruitment portal for new members with **JavaScript** and **REST APIs**, centralizing convoluted recruitment process with 3 platforms and 6 databases into one scalable full-stack application.
- Built novel front-end using **React.js**, **JavaScript**, **HTML/CSS**, and **MUI** components, in alignment with provided designs, building over 20 dynamic web pages that facilitated multi-round recruitment process.
- Engineered back-end functionalities with **Google Firebase**, **Firestore**, and **Authentication** services, elevating app functionality by outlining 4 levels of access for over 50 members and 200 applicants.

### Michigan Mentors

Ann Arbor, MI

*Director of CS Program, Tutor; mzbttutors.com*

Sep 2023 – Present

- Produced and taught free intro to computer science summer program for high school students with 28 participants.
- Designed and crafted lecture content and **C++** exercises, consisting of 8 units and 6 weeks of material.
- Planned and led personalized weekly school subject and standardized test tutoring sessions for 5+ students.

## PROJECTS

### 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 class in **C++** on top of custom **Binary Search Tree** library and **Iterator** class to use as key data structures.

### Text Editor

Mar 2024 - Apr 2024

- Implemented a fully-functional text editor usable through a terminal-based visual editor, similar to **Emacs** and **Vim**.
- Generated custom **C++** **Linked List** and **Iterator** classes for traversal and editing within text editor application.

## SKILLS

- **Languages:** C++, Python, JavaScript, TypeScript, HTML, CSS, Julia, MATLAB
- **Technologies:** React.js, React Native, Axios, Flask, TailwindCSS, Firebase (Authentication, Firestore, Storage), Git
- **Interests:** Swimming, Water Polo, Jazz & House Music, Wikipedia Browsing, NYT Games