

# Keegan Kipke

734-649-9915 • [kckipke@umich.edu](mailto:kckipke@umich.edu) • [Linkedin](#)

## EDUCATION

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### University of Michigan

Expected graduation May 2025

*B.S. in Computer Science, Minor in Sustainability*

- GPA: 3.8

*Relevant Coursework:* Data Structures & Algorithms, Web Systems, Cybersecurity

## EXPERIENCE

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### GEICO

Summer 2024

Software Development Intern | Chevy Chase, MD

- Delivered software updates to a high-traffic iOS app with over 20 million users and more than 1 million daily logins, improving app stability and performance while enhancing user experience.
- Led a project to tailor app features for specific customer segments, creating custom views for thousands of users in 10+ states, and ensuring compliance with insurance laws while boosting GEICO customer retention.
- Refactored legacy code from Objective-C to Swift, improving code maintainability and increasing efficiency.
- Authored and optimized unit tests, increasing code coverage by ~20%, covering thousands of lines of codebase.

### NeuroNexus Technologies

Summer 2022

Software Engineering Intern | Ann Arbor, MI

- Developed data conversion algorithms for seamless transfer of neural information from brain probes to proprietary data management systems, enabling researchers to work with diverse neural data sources efficiently.
- Automated local field potential data collection and preprocessing using Python.
- Utilized data exploration techniques to clean and restructure raw neural data, enabling system compatibility.
- Engineered custom software product in Python, Go, and C++, integrating Google protobufs to enable frictionless data exchange between client brain probes and proprietary data management system.

### Coding and Physician Reimbursement Analysts, Inc

Spring 2023 - Summer 2024

Medical Code Database Specialist | Melbourne, FL

- Maintain medical code databases stored on .xlsx files with over 100,000 entries across 3 districts in Florida.
- Automate the extraction and cleanup of raw data using Python, efficiently creating files for use in litigation.

## TEACHING

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### University of Michigan Department of Computer Science

Summer 2023 - Present

Instructional Aide, EECS 280 (Data Structures) | Ann Arbor, Michigan

- Conduct weekly labs for ~25 students, providing presentations, hands-on guidance, and live demonstrations.
- Offer personalized and group support through 3 hours of weekly office hours and active engagement on Piazza.
- Collaborate with 40-person teaching team to write, test, and grade exams for a class of ~1300 students.

### University of Michigan School of Information

January 2023 - July 2023

Renew CS Mentor | Ann Arbor, MI

- Held 1-on-1 and group tutoring sessions for underrepresented students in computer science.
- Hosted monthly group sessions of ~30 students for special topics in computer science.

## EXTRACURRICULARS

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### Theta Alpha Psi Professional Sustainability Fraternity

Fall 2022 - Present

Vice President of Finance & Operations | Ann Arbor, MI

- Managed organization budget, purchasing, reimbursements, and member dues of several thousand dollars.
- Liaised with university leaders, local businesses, and other parties to manage and promote organization.
- Collaborated with other VPs to have weekly events, fundraise, serve our community, and lead the organization.

## SKILLS

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- **Languages:** C++, C, Python, Swift, Objective-C, Javascript, SQL, HTML, CSS
- **Tools:** Git, Flask, React, XCode, VSCode, Jupyter, REST APIs, AWS