

Kellen Gary

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EDUCATION

The Ohio State University

B.S. in Computer and Information Science

Columbus, OH

Expected Graduation Dec. 2026

- **GPA:** (3.4/4.0)
- **Relevant coursework:** Discrete Structures, Software Components, Development and Design, Low-Level Programming and Computer Organization, Data Structures and Algorithms. Introduction to Probability and Statistics, Calculus 2

PROFESSIONAL EXPERIENCE

Independent Study, The Ohio State University

January 2025 - Present

Software Engineer

- Partner with biomedical engineers and research scientists to design software interfaces for real-time analysis of wheelchair motion and gait data, delivering actionable insights that enhance clinical study efficiency.
- Operate in clinical environments with OSUMC badge access to collect user-centered feedback and iterate on functionality.
- Lead Agile/Scrum processes, conducting weekly stand-ups to foster cross-functional collaboration and improve team efficiency.
- Learned to navigate a pre-existing codebase and used it as a reference to independently develop a full-featured application, incorporating feedback and feature requests from cross-disciplinary collaborators.

PROJECTS

Smarthub Desktop

January 2025

Electron, Next.js, Node.js, Supabase

- Developed a full-stack desktop application for recording and processing data from Smarthub BLE devices, capturing gyro and acceleration inputs to calculate trajectory, heading, displacement, and velocity with real-time synchronization to Supabase.
- Designed a cross-platform Electron interface with responsive Next.js UI and real-time biomedical data streams.
- Improved large time-series data visualization performance by over 80% through LTTB downsampling, significantly enhancing chart rendering speed, application responsiveness, and real-time interaction with high-frequency sensor data.

LockedIn HackOHIO Entry

October 2024

Three.js, React, Python, Firebase, WebGL

- Engineered an interactive 3D visualization tool leveraging Three.js to map LinkedIn connections to build social networks, allowing professionals and students to explore shared industry connections for increased networking and hiring opportunities.
- Led frontend development and integrated Firebase Authentication for secure user sessions and personalized network exploration.
- Optimized real-time data visualization performance through graph node clustering and spatial layout techniques, reducing render time by over 60% and improving usability for large-scale datasets.
- Worked in a fast-paced hackathon to define goals, coordinate workflows, and deliver a demo showcasing cross-industry insights.

DataBased

August 2024

React, CSS, Firebase, Firestore, Flask

- Implemented an easy to use study material database application for Ohio State University students, providing a centralized platform for accessing and organizing academic resources to enhance learning and collaboration.
- Integrated Firebase Authentication and Firestore to manage user accounts and study materials in a cloud-based environment.
- Collaborated with Triangle's "Code Skool" to drive project planning, implement server-side APIs with Flask, and gain hands-on experience in full-stack development and team-based workflows.

SKILLS

Skills: Java, C, C++, Python, JavaScript, TypeScript, SQL, JSON, XML, React, Next.js, Tailwind CSS, HTML, CSS, Vite, Flask, Spring Boot, Node.js, JUnit, Electron, Capacitor, Maven, Linux, Firebase, PostgreSQL, MongoDB, YACC, LLVM, GDB

INVOLVEMENT

Triangle Fraternity

August 2024 - Present

Member, New Member Educator, Recruitment Committee

- Built strong relationships with peers and alumni, enhancing networking and communication skills.
- Promoted fraternity growth by actively participating in the Recruitment Committee, helping attract and onboard new members.
- Educated and mentored 11 new members through a structured New Member Education program, fostering their integration and growth within the fraternity — with 2 new members going on to hold executive board positions.