

# Kellen Gary

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## PROFESSIONAL SUMMARY

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Motivated and results-driven junior Software Engineering student with a strong foundation in full-stack development and a proven ability to learn quickly, adapt to new technologies, and contribute meaningfully in fast-paced environments. Passionate about building scalable, user-focused applications, tools, and systems, while continuously honing both front-end and back-end skills. Seeking opportunities to contribute to dynamic engineering teams with a focus on professional growth.

## SKILLS

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**Professional Skills:** Full-stack, CI/CD, dynamic and contextual API integration, agile/scrum workflow, UX design & development

**Technical Skills:** Java, Python, JavaScript, TypeScript, jQuery, HTML, XML, React, Next.js, CSS, Tailwind CSS, Vite, Spring Boot, Node.js, JUnit, Electron, Docker, Kubernetes, Firebase, SQL, JSON, PostgreSQL, MongoDB, Cloudflare, Github Actions

## EDUCATION

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### The Ohio State University

GPA: (3.3/4.0)

B.S. in Computer and Information Science

Expected Graduation Dec. 2026

- **Relevant coursework:** Discrete Structures, Software Components, Development and Design, Low-Level Programming and Computer Organization, Data Structures and Algorithms, Design, Development, and Documentation of Web Applications

## PROFESSIONAL EXPERIENCE

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### Independent Study, The Ohio State University

January 2025 - Present

Biomedical 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 within OSU Medical Centers 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.
- Learn to navigate a pre-existing codebase and use it as a reference to independently develop a full-featured application, incorporating feedback and feature requests from cross-disciplinary collaborators.

## PROJECTS

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### Smarthub Desktop (*Electron, Next.js, Node.js, Supabase, FastAPI*)

January 2025

- 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 (*Three.js, React, Python, Firebase, WebGL*)

October 2024

- 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.
- Thrived in a fast-paced hackathon to define goals, coordinate workflows, and deliver a demo showcasing cross-industry insights.

### DataBased (*React, CSS, Firebase, Firestore, Flask*)

August 2024

- 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.

## INVOLVEMENT

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### Triangle Fraternity

August 2024 - Present

Member, New Member Educator, Recruitment Committee

- Facilitated fraternity growth by actively participating in the Recruitment Committee, attracting and onboarding new members.
- Coached and mentored 11 new members through a structured New Member Education program, fostering their integration and growth within the fraternity with two new members going on to hold executive board positions.