KAYLIE SAMPSON

Ashland, NH · (978) 987-2598 · kksamps2@gmail.com
https://github.com/kaylie-e-sampson · www.linkedin.com/in/kaylie-e-sampson · https://kaylie.dev

EDUCATION

Dartmouth College, Hanover, NH   **June 2025**
Bachelor's Degree, Major in Computer Science and Minor in Digital Arts   **GPA 3.8/4.0**
Activities: CoderDojo, DALI Lab, First-Generation Community, HackDartmouth, NCWIT Student Ambassador,
Rewriting the Code (RTC) Student Leader, TuckLAB: Entrepreneurship, Women in Computer Science (President)

RELEVANT EXPERIENCE

Duolingo, Pittsburgh, PA   **June 2024 – Present**
Software Engineer Intern
- Enhancing user retention by 81% on the language learning platform through refining existing features and implementing new ones via A/B testing, significantly supporting the Retention Team's initiatives
- Developing a session-end screen that tracks and displays a user's progress towards their next streak reward using **React.js**, leading to an increase of 3.7k Daily Active Users (DAUs) on the platform, enhancing user engagement

Amazon Web Services, Seattle, WA   **June 2023 – September 2023**
Software Development Engineer Intern
- Spearheaded the design and development of a robust **PostgreSQL** protocol state machine in **Rust** that tracks and monitors the state of protocol communication between diverse clients and **Aurora** Database instances
- Pioneered the integration of additional custom logic within the protocol state machine, empowering AWS **Relational Databases** with unique monitoring features and custom behaviors that allow for advanced debugging

Digital Applied Learning and Innovation (DALI) Lab, Hanover, NH   **January 2022 – June 2024**
Software Engineer
- Collaborated with a team of designers and developers to create mobile, web and AR/VR applications, leveraging expertise in **React.js**, **React Native**, and **C++** to deliver effective solutions to complex problems
- Mentored 40 developers in a fast-paced, collaborative environment by guiding discussions, providing constructive feedback, and sharing expertise in best practices to ensure project success and growth

Pegasystems, Salem, NH   **June 2022 – September 2022**
Software Engineer Intern
- Developed critical microservices components and various internal testing infrastructure in **Kotlin** while implementing rigorous test suites using **Docker** and **Jenkins** for the low-code Pega Platform
- Collaborated with a team of 5 software engineers to deliver software solutions through the full agile process

PROJECTS

HackDartmouth   **June 2022 – June 2024**
- Launched the annual hackathon website using **Webflow** to facilitate seamless registration for 100+ participants and facilitated in-person workshops on web programming fundamentals in **React.js** and **React Native**

MeU   **March 2023 – June 2023**
- Spearheaded the development of a check-in feature using **React Native** by implementing 3 components, enabling users to create, edit, and delete responses to daily relationship questions about their partner

mGame   **September 2022 – March 2023**
- Developed 8 responsive **React** components to construct an engaging and interactive survey for patients at Dartmouth Hitchcock Medical Center, empowering them to establish goals for their medical treatment

Rüm   **January 2022 – June 2022**
- Implemented the functionality for a calendar screen using **React Native** and **MongoDB** that enhanced the user experience in a mobile application that manages communication between college roommates

Testnode   **September 2020 – October 2020**
- Designed and developed an **iOS** application in **Swift** that streamlines the process of checking into Covid-19 testing centers by providing a mobile platform to create and submit necessary patient forms

SKILLS & INTERESTS

Proficient: C, HTML/CSS/JavaScript, Java, Kotlin, PostgreSQL, Python, React Native, React.js, Rust, SQL, Unity
Familiar: C++, Docker, Firebase, Jenkins, Kotlin, MongoDB, Relational Databases, Swift, Visual Basic, Webflow
Interests: Cross-Country Skiing, Hiking, Powerlifting, Reading, Scrapbooking, Solo Traveling, Waterskiing