KAYLIE SAMPSON

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EDUCATION

Dartmouth College, Hanover, NH   **June 2025**
Bachelor's Degree, Major in Computer Science and Minor in Digital Arts
Activities: Women in Computer Science, HackDartmouth, NCWIT Campus Representative
Relevant Coursework: Problem-Solving via Object Oriented Programming, Software Design and Implementation, Discrete Mathematics in Computer Science, Full-Stack Web Development

RELEVANT EXPERIENCE

Digital Applied Learning and Innovation (DALI) Lab, Hanover, NH   **January 2022 – Present**
Software Engineer, Mentor
- Collaborates with a team of designers and developers to create mobile and web applications, leveraging expertise in React, React-Native, and Redux to deliver high-impact and effective solutions to complex problems
- Mentors team members in a fast-paced, collaborative environment by guiding discussions, providing constructive feedback, and sharing expertise in best practices to ensure project success and growth

Dartmouth College, Hanover, NH   **January 2023 – March 2023**
Teaching Assistant
- Provided comprehensive technical guidance to a diverse class of 250 students, addressing inquiries related to course material and programming labs, while ensuring a supportive and inclusive learning environment
- Coordinated and facilitated weekly sessions for a cohort of 10 students, reinforcing fundamental concepts

Pegasystems, Salem, NH   **June 2022 – September 2022**
Software Engineer Intern – Cloud-Native Runtime
- Developed critical microservices components and internal testing infrastructure while implementing rigorous test suites using Docker, Gradle, and Jenkins with respect to the Test-Driven Development process
- Collaborated closely with a high-performing team of 5 software engineers to deliver top-quality software solutions on-time through the full agile process, ensuring clear communication and effective collaboration

SERVICE / LEADERSHIP

Rewriting the Code   **June 2022 – Present**
Student Council Peer Leader - Remote
- Leads the coordination of Code2gether, a program engaging 200 students in collaborative teams to develop innovative solutions for real-world challenges, while enhancing technical skills and gaining valuable experience
- Engages in leadership workshops offered by LifeLab Learning as a member of the RTC Rising Leader Institute

HackDartmouth   **June 2022 – Present**
Developer
- Facilitates engaging and interactive in-person workshops on programming fundamentals with a focus on HTML, CSS, JavaScript, React, and the basic knowledge and skills needed to build web applications
- Collaborates on the development of the first college-wide comprehensive Tech Career Hub for Dartmouth students, providing valuable recruitment resources and career guidance for students interested in technology

PROJECTS

mGame   **September 2022 – March 2023**
Software Engineer
- Led the development of a HIPPA-compliant web application for Dartmouth Hitchcock Medical Center's Orthopedic Department, enabling patients to set and track meaningful goals for their medical treatment
- Implemented a system for secure storage and transmission of personal health information using Firebase

Rüm   **January 2022 – June 2022**
Software Engineer & Designer
- Designed and developed a roommate communication application with a focus on user experience
- Built the front and back-end of a mobile application using React-Native and MongoDB, including the implementation of a functional calendar screen with event creation and approval capabilities

SKILLS & INTERESTS

Technical: Java, Kotlin, Python, Swift, JavaScript, C, HTML, CSS, React/React-Native, Visual Basic, MongoDB
Interests: Scrapbooking, Travelling, Tennis, Cross-Country Skiing, Waterskiing, Weightlifting