

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, CoderDojo

Relevant Coursework: Problem-Solving via Object Oriented Programming, Software Design and Implementation, Discrete Mathematics in Computer Science, Full-Stack Web Development, AR and VR Design, UI/UX Design

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 for Introduction to Programming and Computation

- 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

Women in Computer Science

Mar 2023 – Present

President

- Oversees the planning and execution of initiatives for a community of 300 women interested in computer science
- Collaborates with the Dartmouth Computer Science Department, serving as a point of contact to strengthen the relationship between the organization and the department, and organizing events that foster engagement

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
- Amplifies the voice and values of first-year/sophomore undergraduate women studying Computer Science
- Engages in leadership workshops offered by LifeLab Learning as a member of the RTC Rising Leader Institute

PROJECTS

mGame

September 2022 – March 2023

Software Engineer

- Led the development of a HIPAA-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, Reading, Tennis, Cross-Country Skiing, Waterskiing, Weightlifting