# 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, DALI Lab

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

#### Amazon Web Services, Seattle, WA

June 2023 - Present

Software Development Engineer Intern

- Spearheading the design and development of a dynamic protocol state machine in **Rust** that enables seamless connections to **PostgreSQL** database servers, query transmission, and efficient processing of protocol messages
- Driving the implementation of dynamic action registration mechanisms to elevate the customization and adaptability of the communication system for incoming and outgoing messages from the client and server

# 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 **Unity** to deliver high-impact and effective solutions to complex problems
- Mentors 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 – Cloud-Native Runtime

- Developed critical microservices components and internal testing infrastructure in **Kotlin** 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

- 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

### **PROJECTS**

mGame

MeU March 2023 – June 2023

Software Engineer & Designer

- Spearheaded the development of a check-in feature in **React Native** by implementing 10 components that enabled the user to create, edit, and delete responses to daily relationship questions about their partner
- Led the integration between the frontend and the Cloud Firestore backend by connecting with Axios

Software Engineer

September 2022 – March 2023

- Developed 8 **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
- Utilized Firebase to establish a secure system for storing and transmitting personal health information

#### **SKILLS & INTERESTS**

Technical: Java, Python, C, Rust, React, React-Native, Unity, JavaScript, SQL, Kotlin, Swift, C++, Unity, MongoDB Interests: Scrapbooking, Traveling, Reading, Tennis, Cross-Country Skiing, Waterskiing, Weightlifting