

# KAYLIE SAMPSON

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## EDUCATION

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**Dartmouth College**, Hanover, NH

**June 2025**

*Bachelor's Degree, intended Major in Computer Science:*

**GPA 3.9/4.0**

Activities: Women in Computer Science, HackDartmouth, NCWIT Campus Representative

Relevant Coursework: Introduction to Programming and Computation, Problem Solving via Object Oriented

Programming, Software Design and Implementation, Discrete Mathematics in Computer Science

**Harvard Extension School**, Cambridge, MA

**August 2020**

*Summer 7-week remote program:*

Relevant Coursework: Introduction to Mobile Application Development using Swift and IOS

**Plymouth Regional High School**, Plymouth, NH

**June 2021**

Honors/Awards: Java Programming Award, NCWIT Award for Aspirations in Computing

**GPA 98.24/100**

## RELEVANT EXPERIENCE

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**Digital Applied Learning and Innovation (DALI) Lab**, Hanover, NH

**January 2022 – Present**

*Software Engineer, Mentor*

- Collaborates with designers and developers to produce frontend and backend logic for mobile applications using React, React-Native, and Redux
- Moves DALI developers forward by encouraging quality work, developing better systems and resources, and providing mentorship
- Solves real-world problems with working prototypes each term

**Dartmouth College**, Hanover, NH

**January 2023 – Present**

*Teaching Assistant*

- Leads groups of students in weekly meetings to reinforce fundamental concepts and teach new ideas to students
- Provides guidance and mentorship throughout the term to students struggling with class concepts or programming labs

**Pegasystems**, Salem, NH

**June 2022 – September 2022**

*Software Engineer Intern – Cloud-Native Runtime*

- Developed components that support microservices, internally used testing infrastructure, and related features
- Utilized Docker, Gradle, and Jenkins to build and implement tests with respect to the Test-Driven Development process
- Participated in daily standup, sprints, and full agile process as part of a team of five software engineers

## PROJECTS

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**mGame** (with the DALI Lab)

**September 2022 – Present**

*Software Engineer*

- Developing a web application for the Orthopedic Department at Dartmouth Hitchcock Medical Center to walk patients through goal development, tracking, and attainment intervention
- Collaborating with designers to help develop a technological solution that caters to the partner's needs
- Implementing systems for accepting, storing, transmitting, and deleting personal health information in accordance with HIPPA regulations

**Rüm** (with the DALI Lab)

**January 2022 – June 2022**

*Software Engineer & Designer*

- Designed an application to manage communication between roommates by performing industry research, creating user flows, prototyping on Figma, and conducting user testing
- Developed the front and back-end of a mobile application using React-Native and MongoDB
- Implemented functionality for a calendar screen, allowing for the creation and approval of calendar events

## SKILLS & INTERESTS

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Technical: Java, Kotlin, Python, Swift, JavaScript, C, HTML, CSS, React/React-Native, Visual Basic, MongoDB

Interests: Scrapbooking, Travelling, Tennis, Cross-Country Skiing, Waterskiing, Weightlifting