KAYLIE SAMPSON

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EDUCATION

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

Digital Applied Learning and Innovation (DALI) Lab, Hanover, NH   **January 2022 – Present**
Software Engineer
- Collaborates with designers and developers to produce frontend and backend logic for mobile applications using React, React-Native, and Redux
- Learns about different backend and frontend web development tools and styles from more senior members and from teammates
- Solves real-world problems with working prototypes each term

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

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

Testnode   **September 2020 – October 2020**
Congressional App Challenge Participant
- Built a mobile application using Swift and IOS that creates and sends forms to testing centers to make the process of getting tested for Covid-19 more efficient
- Improved mobile application development skills in a competitive environment with other students

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