

Freya LaLuna

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EDUCATION

Colorado State University

Fort Collins, CO

Bachelor of Science in Computer Science

May 2023

- **GPA:** 3.84
- **Relevant Coursework:** Data Structures, Algorithms, Software Design, Software Testing, Web Development

WORK EXPERIENCE

Firefox Open-Source Contributor | *C++, Javascript, Mercurial*

Nov. 2023 – Feb. 2024

Outreachy

- Selected as one of 5 software development interns internationally to contribute to the Firefox open-source codebase under the guidance of mentors at Mozilla
- Brought the Firefox browser's reporting API up to modern W3C standards and re-enabled it, as it had previously been disabled due to a lack of maintenance
- Introduced measures within the C++ backend to process modern reporting directives while maintaining backwards compatibility with older reporting standards

Diversity & Inclusion Peer Mentor | *Communication, Leadership, Teaching*

Jan. 2022 – June 2022

Colorado State University

Fort Collins, CO

- Facilitated five workshops on topics surrounding diversity, equity, and inclusion for 150+ students in total
- Collaborated with four other peer mentors in researching workshop topics, creating presentations and workshop activities, and facilitating workshops

Data Structures Teaching Assistant | *C++, Communication, Teaching*

Aug. 2018 – Sep. 2020

Colorado School of Mines

Golden, CO

- Provided guidance on programming and data structures fundamentals, helped students frame complex problems in solvable ways, and provided feedback on assignments during weekly office hours
- Co-led weekly lab sections for 100+ students, who we guided through C++ coding exercises that served to solidify the concepts they had learned in lecture

ACADEMIC PROJECTS

Project Management Web App | *Java, React, MySQL, JUnit*

Jan. 2023 - May 2023

- Worked alongside four other students to create a web app which allowed for users to create, organize, and manage projects using a Java backend and React frontend
- Designed data-transfer objects in Java, which greatly improved the ease of communication between our database and frontend
- Implemented manual testing with JUnit and automated testing with Evosuite to attain 85% code coverage in our codebase

Asynchronous Chess Web App | *Java, React, MySQL, HTML/CSS*

Aug. 2022 – Dec. 2022

- Collaborated with four other students to develop a full-stack web application utilizing Java and a REST API to power a React frontend, enabling seamless asynchronous chess games between players
- Worked alongside another student to create the React frontend, including login page, page navigation, chess logic, and a friends list
- Assisted another student in the creation and structure of our MySQL database, including implementing queries related to chess piece movement and board status in Java
- Implemented chess logic and unit testing for two of the six chess piece objects in Java (Queen and Pawn)
- Parsed user stories from a customer testimony, subdivided stories into tasks within a domain model, and utilized Agile methodologies to efficiently complete said tasks

TECHNICAL SKILLS

Languages: Java, C++, C#, SQL, JavaScript, HTML/CSS

Frameworks: React, JUnit, MySQL, PostgresQL

Other: Agile development, scrum, software design patterns, RESTful APIs, Docker, version control (Git / Mercurial), test-driven development, human-computer interaction, object-oriented programming, relational databases