

## Crystal LaMar

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## Education

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**University of California, Berkeley** Fall 2023 - May 2026

B.A. Computer Science GPA: 3.3/4.0

Coursework: Data Structures, Object Oriented Programming, Computer Systems, Software Engineering, Artificial Intelligence, Computer Security, Programming Languages and Compilers, Internet Architecture and Protocols, Databases, Computational Models, Discrete Math, Statistics

## Internships

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**Software Engineering Intern** Summer 2025 - Proposed, designed and developed a feature to aid students in allocating time for assignments throughout the semester. I used AI to parse a syllabus, create a semester-long to-do list, and then transform data into events for their Google Calendar. Key skills include: Artificial Intelligence, deep understanding of API's, Javascript, Project Management, Problem Solving, Back-End and Front-End, and User Interface

## Projects

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**Secure File Sharing System:** Fall 2025 - Designed a cybersecurity project that allowed users to create an account and safely and securely store and share files with other users through cryptography focused methods.

**Personal Website:** <https://crystallamar.me/> Summer 2025 - Created a responsive, accessible personal website showcasing my projects, experience, and skills. Built using modern web technologies and designed with comprehensive accessibility features including WCAG 2.1 AA compliance, keyboard navigation, and screen reader support.

**Treasure Hunter:** Summer 2025 - Developed a text adventure: the user can interact with the world by traversing the map, inspecting their surroundings, picking up and using items, viewing their inventory, and unlocking new routes.

**The Maze:** Spring 2024 - Current - Designed and developed an educational game for kids. The game accommodates kids with mobility impairments and accessibility needs.

## Skills

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Java, Python, C++, HTML, Git, GitHub, Terminal, Jupyter Notebook, IntelliJ, Eclipse, BlueJ, VSCode, C, Vim, RISCv, API's, Retool, JSON, JavaScript, Artificial Intelligence, Go, OCaml, SQL, Encryption, Memory Safety, Cryptography, Web Networking, Security

## Notable Work Experience

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**iD Tech: Director and Instructor at Stanford University and Harvard University**

Summers 2016 - 2019 Stanford University, Harvard University : Taught campers how to program in Java, HTML and Scratch and helped them complete a final project. Directed a camp of 230 students and 28 staff members which included leading team staff meetings to discuss our goals and our achievements to keep us on track each week as well as fixing constant IT issues.