

Crystal LaMar

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Education

University of California, Berkeley

May 2026

Bachelor of Arts in Computer Science

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Computer Systems, Software Engineering, Artificial Intelligence, Computer Security, Compilers and Languages, Internet Architecture and Protocols, Computer Graphics, Database Systems

Skills

Languages: Java, Python, SQL, C++, HTML, C, RISC-V, JavaScript, Go

Tools: Pandas, Plotly, Jupyter Notebook, IntelliJ, Eclipse, BlueJ, VSCode, Retool, XCode, MySQL, SQLite

Soft Skills: Communication, Leadership, Empathy, Teamwork

Other: API's, JSON, Git, GitHub, Terminal, RestAPI

Highlighted Experience and Projects

Software Engineering Intern, Project Athena, Berkeley, CA

Summer 2025

- Proposed, designed and developed a feature for the company designed to aid clients in their education.
- Used Retool, a lowcode platform, and a deep understanding of AI and APIs to create a dashboard that allowed users to input a syllabus and output a list of calendar events for each assignment that could easily be added to their Google Calendar.
- Collaborated with the CEO and design team before launch to ensure it conformed to our company standards.
- Utilized my understanding of project management to prioritize tasks, set goals and deadlines to ensure the feature was ready for launch on time.

Personal Website

<https://crystallamar.me>

Summer 2025

- Created a responsive and accessible website to showcase my experience, projects and skills.
- Built using modern web technologies and designed with accessibility features in mind.
- Showcase my understanding of front-end design and human behavior and interaction to make the site easy to maneuver and understand.

Interactive Space Mission Dashboard

Spring 2026

- Developed an interactive dashboard to visualize and analyze historical space mission data from 1957 onwards.
- Frontend built with Python, Streamlit, Pandas and Plotly
- Backend built with FastAPI, SQLAlchemy, SQLite and Uvicorn
- Built with client-server architecture where the frontend and backend are fully separated.
- <https://github.com/crystallamar/Interactive-Space-Mission-Dashboard.git>

Secure File Sharing System

Fall 2025

- Cybersecurity focused, this project allows users to create accounts and successfully store and share files securely.
- Utilizing knowledge of public key cryptography, digital signatures and symmetric key encryption I created a system that prevents various attacks such as reading and tampering with sensitive data and information stored on the server.

Work Experience

Lead Coding Instructor: iD Tech Camps, Stanford University

- Taught 6-10 year olds how to program in Tynker and Scratch and 10-17 year olds how to program in JavaScript and HTML.
- Promoted to lead instructor mid-summer due to my work ethic, leadership and consistent great reviews from parents and students in regards to their progress and final projects in my class.