

Cecilia Rosales

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Education

University of California Berkeley (Berkeley, CA)

May 2025

Major: *Electrical Engineering and Computer Sciences, B.S.*

Programming Coursework: (*Completed*): Structure and Interpretation of Computer Programs, Data Structures and Algorithms, Designing Information Devices and Systems I, Designing Information Devices and Systems II, Multivariable Calculus, Physics for Scientists and Engineers, Great Ideas in Computer Architecture (Machine Structures), Discrete Mathematics and Probability Theory, Introduction to Computer Security, Introduction to Artificial Intelligence, Introduction to Database Systems, Microelectronic Devices and Circuits, Efficient Algorithms and Intractable Problems

Skills

Software: Python, Java, Git, C, RISC-V, SQLite

Languages: English, Spanish

Work Experience

Berkeley Mentorship Cohort (BMC) Communications Lead

August 2022 – May 2025

- Design, publish, and update content for the program for 250 students, both mentors and mentees
- Design and manage social media platforms specific to BMC
- Collaborate with planning and execution of ESS programs and facilitate 10 events per semester

Clubs/Extracurricular Activities

Berkeley Mentorship Cohort

August 2023 – May 2025

- Role: Mentor
- Assist with professional development and provide relevant opportunities
- Provide resources, answer questions, and address concerns
- Aid in course planning and provide study resources

Hispanic Engineers and Scientist (HES) Garden Committee

January 2024 – May 2025

- Role: Garden Lead
- Collaborate on maintaining a garden space on campus during open hours for 3 to 4 hours weekly
- Conduct research on sustainable irrigation methods and the technologies needed to support them
- Raise awareness on sustainable irrigation practices by opening our space to everyone who is interested
- Facilitate 4 to 5 events per semester

Projects

Scheme Interpreter

- Developed an interpreter for a subset of the Scheme Language
- Defined methods that identified certain aspects of the Scheme Language
- Handled multiple cases that could have otherwise ruined the interpreter
- Utilized: Python, Visual Studio Code (VS Code)

NGordnet

- Designed the back end of a browser based tool for exploring the history of word usage in English texts
- Incorporated Java packages that allow for data analysis
- Implemented a graph class that converts dataset files into graphs
- Utilized: Java, IntelliJ IDE, Git, Remote debugging in IntelliJ IDE

CS61CPU

- Designed and implemented a virtual CPU for assembly language
- Implemented all the possible assembly language instructions, their variables, and their conditions
- Developed the CPU's functionality such as execution pipeline and register file management
- Utilized: Logisim