Alexa Munoz Chavez

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Education

University of California, Berkeley   **Expected Graduation: May 2027**

B.A. in Data Science (Science, Technology & Society emphasis), Minor in Industrial Engineering & Operations Research

Hispanic Scholarship Recipient (HSF) & CAL Achievement Alumni Award Recipient (TAAP)

Relevant Coursework: Data Structures & Algorithms, Foundations of Data Science, Principles & Techniques of Data Science, The Structure & Interpretation of Computer Programs, Decisions, and Human Contexts & Ethics of Data

Skills

Languages: Python, R, Java, SQL, JavaScript, HTML, CSS

Tools: Pandas, NumPy, Matplotlib, Tableau, Excel, MySQL, SQLite, Jupyter Notebook, GitHub, Visual Studio, IntelliJ

Certifications: Fundamentals of Cybersecurity, HTML & CSS, Cryptography

Highlighted Experience and Projects

Audio Visual Technician I & II, UCB Event Services, Berkeley CA   **May 2024 - Present**

- Lead and train a team of 6+ technicians to execute high-profile campus events, ensuring smooth operations in fast-paced, high-pressure environments.
- Operate and maintain advanced **AV systems** (power distribution, soundboards, projection, and lighting) to support events with **300–500+ attendees** and deliver seamless technical performance.
- Set up, troubleshoot, and optimize AV equipment for live events to ensure high-quality sound, visual output, and a reliable experience for campus partners and guests.

Tech Developer Intern, SEO (Sponsors for Education Opportunity), New York, CA   **Summer 2025**

- Developed a full-stack meal-generation platform using Flask, JavaScript, and HTML/CSS, integrating 2 external APIs to deliver personalized recipe recommendations for **120+ student** users based on preferences, budgets, and dietary restrictions.
- Implemented a grocery store locator using the Google Places API, enabling users to find nearby ingredient sources and improving task completion for meal planning by **35%.**
- Designed and analyzed a targeted user feedback survey (50+ responses), translating insights into feature refinements that increased repeat platform usage by **25% during testing**.

Project: Property Taxes Research, Course:Principles & Techniques of Data Science   **Spring 2025**

- Analyzed **1M+** property tax records from Cook County, IL using **SQL and Pandas, cleaning and filtering large datasets** to ensure accuracy and reliability in downstream analysis.
- Identified **systematic assessment disparities** through **Matplotlib visualizations**, finding that properties in lower-income neighborhoods were **8–12% more likely** to be over-assessed compared to higher-income areas.
- Delivered actionable insights in a **final report**, recommending improved assessment auditing and equity-focused review policies, **translating complex data findings** for non-technical audiences.

Project: Virtual Mentor, Data Science Discovery, Berkeley CA   **Spring 2024**

- **Built an AI-powered workflow tool for product managers** using Python, HTML, and CSS, enabling them to generate feature ideas, summarize requirements, and streamline everyday decision-making.
- Conducted iterative usability testing with a product manager, implementing feedback that **reduced task completion time by 40%** and improved navigation clarity across core features.

Leadership and Extracurricular Activities

Girls Who Code   **Jan. 2024 - Present**

Alumni Advisory Council – Worldwide; **Co-President**, UC Berkeley College Loop

- **Organize and lead interactive social and technical events** for a community of **800+ members**, increasing engagement and fostering a supportive environment for women in tech.
- **Strengthen networking and career development opportunities** by coordinating with GWC partner companies to host specialized workshops, panels, and recruiting events.

Member of: Hispanic Engineers and Scientists at Berkeley, Colorstack at Berkeley