

Sergio Hernandez

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EDUCATION

California State University, Northridge

Northridge, CA

Bachelor of Science in Computer Science; GPA: 3.7

Aug. 2019 – May 2023

Minor in Mathematics

Honors: Dean's List (Spring 2020), (Fall 2021 - Spring 2023)

EXPERIENCE

Amazon - Grocery Experience Department

Irvine, CA

Software Development Engineer

Dec. 2023 – Present

- Developing and designing **Object Oriented** software to enhance the user interface for grocery product search results on amazon.com and other international domains that have grocery partners such as Whole Foods, Amazon Fresh, and Morrisons in marketplaces such as the US, India, Japan, the UK, and Spain to name a few.
- Monitor experiments and projects that are visible to over **3.4 million** customers to catch and triage any defects or bugs that are customer impacting, resulting in the successful launch of a new Add-To-Cart feature on Amazon Fresh and Whole Foods search that is live today.
- Reviewed **50+ Java** and **JavaScript** code submissions to ensure errors are caught in development and follows good coding standards, while also submitting over **60+ code reviews** myself.
- Developed an **AWS CDK** construct in **TypeScript** to generate customizable **CloudWatch** metrics for internal Amazon APIs, incorporating thresholds with alarms that cut tickets to our team when breached, and metrics like latency, availability, and CPU time, that get deployed across multiple AWS regions.
- Created **Cypress tests** with Javascript to validate URL creation, component rendering, and component click functionality on search products.
- Managed the progress of over **45+ Jira** stories, ensuring accurate tracking of experiments and projects to support team objectives.
- Gained experience using **Git** commands such as stash, push, merge, rebase, branch, checkout, diff, cherry-pick and squashing, and got accustomed to using **Vim motions** due to constant interaction with the terminal.

Pennymac - Application Development Corporate

Agoura Hills, CA

Application Development Intern

Jun. 2023 – Aug. 2023

- Developed an input processing program for the finance department that converts an English-like language into **Python** code, and had to take into consideration edge cases from pre-written statements.
- Implemented a conversion algorithm from the Python code into **JSON** format for future execution, using CSV data to determine how to store each Python script.
- Created a grammar for financial analysts to follow for newly added statements, enforcing good coding practice and less risks for bugs that were previously added.

CSUN - Geology Department

Northridge, CA

Computational Research Assistant

Jun. 2022 – Jan. 2023

- Perform GIS spatial analysis (in QGIS) to document earthquake recording across California and quantitative analysis (in **Excel** and **Matlab**) to generate graphs that show trends in fault intensities.
- Produced visualizations, including plot diagrams and images, to support research efforts in a white paper essay about my findings for earthquake magnitude trends.

ACHIEVEMENTS

FAANG Coding Club

Northridge, CA

President

Feb. 2021 – Jun. 2022

- Founded a club at my university to enhance interview and class performance by **leading programming workshops and tutorials** on computer science topics such as Binary Trees, Linked Lists, and Algorithms with the Java programming language.
- Around **20 sophomore and junior** university students participated in the club over the course of **1.5 years**, which students have said filled a gap in learning for them.

CODE FOR A CAUSE Coding Competition

Northridge, CA

Winning Team

Jan.21-23 2023

- Led my group in developing a cross-platform React Native mobile application for tracking eye drop medication for post-surgery patients by organizing and prioritizing project requirements.
- Contributed to the design and functionality of the app, resulting in a user-friendly prototype that won us the competition due to it being the most functional, judged by over **10+ software engineers** in companies such as Northrop Grumman.
- Gained git experience dealing with merge requests and merge conflicts, quickly learning within the **24 hour duration** of the competition.

PROJECTS

Ka-Chonk (Online Party Game) | *React.js, TypeScript, JavaScript, Node.js, Express* Feb. 2025 – Present

- Developing an online party game using **Websockets** where users connect to the host session on their mobile phones and vote on the funniest responses to prompts.
- React.js and typescript renders the host gameplay screen, and state management is handled by React's context provider, while the player's mobile view is written in vanilla JavaScript for rendering based on server messages, bundled together using **webpack**.
- The server handles game state such as current prompt and score, and player management in case a user quits, or interacts with elements on their mobile device.
- **Figma** was used for screen design to maintain consistent styling throughout the frontend using **Sass**.

Advisement Sign-In Application | *React, Firebase* Jan. 2023 – Present

- Developed an online sign-in sheet to replace pen-and-paper method for the CADV Advising Department at my university, including an admin view of the data with an export feature to CSV.
- Students can scan a QR code that is posted in front of the CADV advisement office on campus to input their information for their meeting, simplifying the process for both students and CSUN staff.
- Over **250 students** have actively used this website in just Spring and Fall 2024 alone, and has still been active for over **1.5 years**.
- Implemented student data security by limiting access to the admin view by having users login to whitelisted gmail accounts only.

Project Management System | *React, Node.js, MySQL* Aug. 2022 – Sept. 2022

- **React** web app to manage employee information and tasks, which allows for viewing, creation, updating, and deletion of employee records.
- Includes search functionality to easily lookup employees by name, ID, position, or task, using Node.js to make SQL queries to a local **MySQL database**.
- Implemented separation of concerns by having the server handle requests to the database and the client request for data from the server.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, SQL, HTML/CSS, SASS, MATLAB, C#

Frameworks: React, React Native, Node.js, Webpack

Developer Tools: AWS CDK, Jira, Git, Figma, IntelliJ, VS Code, Firebase

Human Languages: English (Fluent), Spanish (Intermediate)