

# Sergio Hernandez

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## EDUCATION

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### California State University, Northridge

Northridge, CA

*Bachelor of Science in Computer Science, Minor in Mathematics*

*Aug. 2019 – May 2023*

### Related CourseWork

*California State University, Northridge*

- Algorithms and Data Structures, Advanced Algorithms and Data Structures, Intro Software Engineering, Operating Systems, Automata, Senior Design Project
- Calculus I - III, Linear Algebra, Discrete Math, Combinatorial Algorithms

## EXPERIENCE

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### Application Development Intern

Jun. 2023 – Aug. 2023

*Pennymac*

*Agoura Hills, CA*

- Developing a compiler that will convert an English-like language into Python code using Python.
- Responsible for hosting the compiler on AWS services such as Lambda functions and S3 buckets.

### Computational Research Assistant

Jun. 2022 – Jan. 2023

*CSUN Geology Department*

*Northridge, CA*

- Perform GIS spatial analysis (in QGIS) and quantitative analysis (in Excel and Matlab).
- Produced visualizations, including plot diagrams and images, to support research efforts.

## ACHIEVEMENTS

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### FAANG Coding Club

Northridge, CA

*President*

*Feb. 2021 – Jun. 2022*

- Founded a club at my university to enhance interview and class performance by teaching computer science concepts and techniques.
- Led programming workshops and tutorials to assist university students in learning Java and developing their algorithm skills.

### CODE FOR A CAUSE Coding Competition

*Winning Team*

*Jan.21-23 2023*

- Led my group in developing a cross-platform mobile application for tracking eye drop medication for post-surgery patients.
- Contributed to the design and functionality of the app, resulting in a functional and user-friendly prototype.
- Developed skills in using GitHub and Git command-line tools, including working with pull requests and merging code.

## PROJECTS

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### 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.
- Implemented student data security by limiting access to admin Gmail accounts only.

### Project Management System | *React, Node.js, MySQL*

Aug. 2022 – Sept. 2022

- React app to manage and track employee information and task assignments, which allows for the viewing, creation, updating, and deletion of employee records.
- Includes search functionality to easily locate employees by name, ID, position, or task, using Node.js to make SQL queries to a local MySQL database.

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, SQL, Kotlin, HTML/CSS, C#, MATLAB, Swift

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

**Developer Tools:** Git, Visual Studio Code, Firebase, Android Studio, Unity, MS Excel, Postman