

Sergio Hernandez

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EDUCATION

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

Application Development Intern

Jun. 2023 – Aug. 2023

Pennymac

Agoura Hills, CA

- Developed a compiler that will convert an English-like language into Python code using Python.
- Created algorithms to efficiently create and search for keys in a JSON file that has the converted Python code.

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

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

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

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