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