Sergio Hernandez

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OBJECTIVE

To obtain an opportunity where I can contribute to software engineering projects using my leadership and technical skills.

TECHNICAL SKILLS

Programming Languages

Java, Python, JavaScript, React.js, Node.js (Express), React Native, SQL, Kotlin, HTML/CSS, C#, MATLAB, Swift

Tools

MySQL, Github, Git, Visual Studio Code, Firebase, Android Studio, Unity, MS Excel

WORK EXPERIENCE

Computational Research Assistant - CSUN Geology Department June 2022 - Jan 2023

- Perform GIS spatial analysis (in QGIS) and quantitative analysis (in Excel and Matlab).
- Produced visualizations, including plot diagrams and images, to support research efforts.
- Configured GPS antennas for field studies in the Los Padres National Forest.

EDUCATION

California State University Northridge (CSUN)

Bachelor in Computer Science

Minor in Mathematics

Degree Expected: June 2023

GPA 3.68

Courses Taken:

- 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

ACHIEVEMENTS

FAANG Coding Club - President Feb. 2021 - June 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 - Participant Jan. 21-23 2023

Winning Team

- Led my group in developing a 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

- Hike Tracker
  - React app that allows individuals to easily track and record their hiking experiences.
  - Utilized Google Authentication for secure login and Firebase's firestore database system to store visited locations.
  - Includes a chat feature that allows users to connect with other hikers.
- Project Management System
  - React app to manage and track employee information and task assignments.
  - Allows for the viewing, creation, updating, and deletion of employee records.
  - Includes search functionality to easily locate employees by name, ID, position, or task.
  - Used Node.js to make SQL queries to a local MySQL database.
- Mp3 File Tagger
  - Developed a python desktop application that leveraged the Spotify API to tag MP3 files with their release year and explicit content status.
  - Provides DJs with an efficient way to organize their music library.