Gerardo Aldana

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EDUCATION

University of San Francisco   **Graduation Date:** May 2022
Bachelor of Science in Computer Science; Minor in General Business   **San Francisco, California**

TECHNICAL EXPERIENCE

Geodnet | Hyfix (employed through SunSkyStar LLC)   **November 2022 – Present**
Network Engineer   **San Franciso, Bay Area**
○ Provided technical support to miner nodes, including installation and upgrades using **TCP/IP** protocol
○ Leveraged **Node.js**, **Python**, and **JavaScript** to architect and develop scripts and software solutions, enabling task automation, and delivering enhanced user experiences for customers and end-users.
○ Monitored network performance, identified, and resolved issues to ensure maximum network efficiency
○ Conducted rigorous testing and data analysis for products in development, utilizing **Node.js**, **Python**, **RTKLIB**, and **Linux OS** to ensure high-quality, dependable products.
○ Configured and prepared global base stations and miner nodes for deployment

Behavioral Health Services Department (SCC)   **April 2022 – November 2022**
Data Analysis and Reporting Student Intern   **Santa Clara, California**
○ Aggregated and visualized data to streamline analysis and performance tracking with **Power BI** dashboards
○ Performed workflow analysis on business processes and identified gaps to ensure compliance with HIPAA

SOFTWARE PROJECTS

Visual Data Platform   **Technologies:** Java, JavaScript, S3, Micronaut, Groovy, TailwindCSS, NoSQL
○ Architected and implemented a full-stack platform in **Java** and **JavaScript**, which enabled end-users to manipulate, retrieve, and store data
○ Built a backend microservice with **Micronaut** and integrated **GCP** and **AWS S3 APIs**, allowing file storage
○ Extracted and converted records from user-inputted **HTML** tables/lists, zip files, and plain text files to **CSV**
○ Persisted job metadata and user login information with a **NoSQL** document database and **JSON**
Search Engine with Multi-Threaded Web Crawler   **Technologies:** Java, HTML
○ Created a **multi-threaded** web crawler that leveraged a work queue to build an index from a seed URL
○ Programmed an **HTML** text form that allowed a user to submit a multi-word search query to a **Java servlet** which performed a partial search from an index to generate an HTML page with sorted links dynamically
Network Compression Detection   **Technologies:** C, TCP, UDP
○ Created a client/server application in **C** that created a **TCP** connection from the client and sent configuration files and **UDP** trains to the server
○ Programmed a standalone application in an uncooperative environment, which sent a UDP train with both a TCP head and TCP tail and then recorded the **RST** time stamps to calculate compression detection

TECHNICAL SKILLS

Languages/Frameworks: Java, C, Python, Go, React.js, Swift, C++, HTML, CSS, JavaScript, SQL, Racket, Haskell, ARM Assembly, Micronaut, Vue.js, Node.js
Cloud Technologies: Amazon Web Services, Google Cloud Platform, Microsoft Azure
Certificates: Mobile App Design and Computer Coding 2018, CodePath's iOS Development Certificate 2021
Utilities: Microsoft Power Bi, Tableau, Sharepoint, Git, Windows/Mac/Linux OS, Terminal Util., Zendesk