# 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**                                                                  **November 2022 – Present**
**Network Engineer**                                                         **San Franciso, Bay Area**
- Provided technical support to miner nodes, including installation and upgrades using **TCP/IP** protocol
- 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, leveraging **AWS EC2**, **Teltonika RMS**, and **SLXMON** for efficient configuration and support.

**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
- Provided IT support to grant access to databases and contributed to the collection and addition of data

## 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 and wrote the data to a **CSV**-formatted file
- 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