

# GUILLERMO ALFARO

## Software Engineer

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### EXPERIENCE

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#### Software Engineer (*Junior*)

SAN DIEGO, CA

NEW FRONTIER FUNDING

November 2023 - Present

- Automated full development cycle with Azure to increase CI/CD.
- Designed and implemented our lead procurement/enrichment pipeline using Azure Logic/Function apps, increasing productivity and efficiency.
- Saved the company about \$4,000 per day by developing our bespoke tools for email procuring and enrichment.
- Designed a resilient, scalable system ensuring process isolation for enhanced reliability.
- Implemented lead tracking table to monitor the lifecycle of a lead throughout our enrichment and deployment process, along with logging any failures to produce a quantifiable throughput for each process.
- Increased our email procurement percentage from 28% to 65% by monitoring and optimizing failure points utilizing my lead tracking system.

### EDUCATION

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#### UNIVERSITY OF CALIFORNIA SANTA CRUZ

Santa Cruz, CA

*Bachelor of Science, Computer Science*

SEP 2020 - Sep 2023

#### BAKERSFIELD COMMUNITY COLLEGE

Bakersfield, CA

*Associate of Science, Mechanized Agriculture*

JUNE 2016 - May 2020

### RELEVANT COURSES

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- Data Structures & Algorithms / Algorithm Analysis
- Principles of Computer System Design
- Intro to Software Engineering
- Game Artificial Intelligence

### PROJECTS

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- Used React Native to build cross-platform location based social media app on geocaching but for posts
  - I used google maps API to show posts and give a path to their location
  - I implemented the UI for the home feed, post creation page, and singular post view
  - My team and I used Scrum and Agile practices to organize and lead our team in a collaborative way
- Built multi-threaded RESTful API using C
  - I used websockets and regex to retrieve and parse information sent to my server
  - I used mutexes to make server thread safe and deadlock/livelock safe
  - I utilized multithreading to increase server response time during high volume by over 300%

### TECHNICAL SKILLS

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- Program Management: Scrum methodologies, Agile, Git, CI/CD, Asana, Slack
- Programming Languages: Python (Advanced), Js/Ts (Advanced), C++ (Experienced)
- SWE Tools: React (Experienced), SQL (Advanced), RESTful APIs (Experienced), SaaS (Experienced), Azure