GUILLERMO ALFARO

Software Engineer

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EDUCATION

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

- Data Structures & Algorithms / Algorithm Analysis
- Principles of Computer System Design
- Intro Software Engineering
- Game Artificial Intelligence
- Computational Models (Regex)

PROJECTS

- Upgraded PacMan Ghost AI
  - I reengineered the PacMan Ai to use behavior trees instead of static state machines
  - My team created different difficulty modes to have the Ghost AI be more dynamic and unpredictable
  - I introduced guarding and multiple cutoff mechanics to add more possible states the behavior tree could be in
  - Because of these upgrades we made PacMan 4.4 times harder
- 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 HTTP server 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

TECHNICAL SKILLS

- Program Management: Scrum methodologies, Agile, Git, CI/CD
- Programming Languages: Python (Advanced), C (Experienced), C++ (Experienced), Js/Ts (Advanced), React (Experienced), Django (Experienced), SQLite (Intermediate), RESTful APIs (Intermediate)

EXPERIENCE

WILBUR-ELLIS   **Shafter, CA**
Operations Specialist Intern   **June 2022 - Sep 2022**
- Be first contact with customers that call, walk-in, or email
- Take orders and cross check to see if they're available/check if permit is required
- Assign deliveries to drivers in a way to efficiently manage time and resources