Alexander Aghili

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Education

Bachelor of Science, Computer Science.   **Expected Graduation: June 2026**
University of California, Santa Cruz – Santa Cruz, CA.
   Courses: Java OOP, Assembly Language, Advanced Java
   Activities: Slugbotics, Google Developer Student Club

Projects

Public Poll Social Media Application – [Website](#)   May 2021 – Sep 2021

- Sole developer of **full stack** iOS and Android Mobile Polling Application to create and share polls with friends and the public, utilizing Flutter, Apache Tomcat, MySQL, and Redis.
- Designed and implemented architecture with full **CRUD** operations for several applications including accounts, polls, and comments.
- Utilized cloud data storage and compute with Amazon S3 and Digital Ocean Droplets.

LIDAR Distance Network – [Github](#)   Jul 2021

- Developed C++ application utilizing Raspberry Pi, a **LIDAR** Sensor, and a client/server architecture with **multithreading** to send distance data from the time fo flight LIDAR sensor to clients connected via wifi.
- Worked with datasheet and **I2C** protocol to connect LIDAR sensor to Raspberry Pi.

Omegle Bot – [Github](#)   Dec 2020

- Collaboratively wrote a python script utilizing Discord API and pyautogui allowing friends on Discord to type messages that will be automatically typed into users defined message box location on Omegle.
- Sniffed UDP packets using wireshark console to geolocate other Omegle user.
- Packaged with Python interpreter into an executable file reducing friction for users wanting to use the application.

Experience

Redwood High School – Marin, CA.   Jan 2021 – Apr 2021
CS Teaching Assistant

- Prepared and conducted weekly tutorials for students in the course **Introduction to Computer Programming**
- Designed complex projects for students in order to reinforce material taught in lecture.

Certificates

Private Pilot Certificate - FAA   May 2022
Demonstrated an understanding of aerodynamics, aircraft systems, National Airspace System regulations, and more.

Certified Cloud Practitioner - AWS   Oct 2022
Demonstrated an understanding of cloud concepts, cloud technologies, AWS billing and cost analysis, and security.

Programming Skills: Java, JavaScript, Python, C++, SQL
Tool Skills: AWS, Git, Apache Tomcat, Linux, Redis, Flutter, REST, Microsoft Office Suite
Soft Skills: Curious, Strong time management, Ambitious
Interests: Aviation, Skiing, Travel