Richard Aguilar

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EDUCATION

San Francisco State University — San Francisco, CA
Bachelors in Computer Science — *Aug. 2021 – Present*

Riverside City College — Riverside, CA
Associates in Computer Science for Transfer — *Aug. 2018 – July. 2021*

EXPERIENCE

Microsoft Summer Challenge — Remote
Web Developer — *2021*

- **Web Development**: Temporarily deployed Web application using HTML, CSS, and React.js on Heroku. Essential functions of the application was to get the longitude and Latitude of the user and have the google API find a 5 mile radius of possible users. Side functions include Newsletter section and a daily digest section using news articles found by the newsapi.org API to gather relevant news.
- **Project Management**: Discussed with assigned group members to create a minimum viable product and create bussiness and technical report including possible technologies and possible problems the group might face as the application is built.

NASA Spacesuit User Interface Technologies for Students
Team Lead — *Aug 2018 - Oct 2020*

- **Augmented Reality Development using HoloLens**: Used MixedReality repository to develop a augmented heads up display to for used for development of augmented reality. Essential functions include efficiently using screen space to allow telemetry to be presented real time without impairing the user
- **Telemetry and Data Streaming**: During practice runs the Hololens had to handle telemetry given from a API given to each team member on practice data that real space suit would give
- **Leap Motion Hand Tracking**: HoloLens has a limited hand tracking software for the goal of the development. Used Leap-motion hand-tracking camera and software to allow the program to find the the velocity and angle of the hand.

PROJECTS

File System Project
Clone of Linux File System

- **Operating Systems**: As a group manage and handle meetings to build a clone of the Linux file system using the programming language C and utilizing a bitmap to track the freespace on the volume created

Personal Website
Portfolio

- **Web Development**: Practise the basic use of HTML, CSS, and deployed the website with github.io. Practiced specifically with the canvas and JavaScript

CLUBS

Association for Computing Machinery
Founder and Club Leader — *Aug 2018 - July 2021*

- **Summary**: Main focus of the club was to provide information and education not normally found in classes given. Assigned and taught groups to learn on a topic and create a small project to present to the club.

International Collegiate Programming Contest
Coordinator and Participant

- **Summary**: Programming competition where students competed to complete a set number of problems. Coordinated the ICPC event for Riverside City College to handle multiple universities participating

PROGRAMMING SKILLS

- **Languages:** HTML, CSS, JavaScript, C, C#, C++, Java, Python, Go, Typescript
  Technologies: React.js, Unity, mySQL, Node.js, GitHub/GitKraken, FileZilla, Trello