Adil Quamar

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EDUCATION

University of California, Irvine   June 2023

Bachelor of Sciences in Computer Science and Engineering
GPA: 3.87; Magna cum Laude; Dean's Honor List all quarters

EXPERIENCE

Amazon, Lab 126, Sunnyvale CA   June 2021 – September 2022
Alexa Devices Software Development Engineering Intern

Summer 2022   June 2022 – September 2022
Problem Statement: Design and develop a system to guarantee content freshness on Alexa multimodal devices
- Implemented cloud-based pub-sub architecture for content refreshing on Alexa's multimodal devices triggered by user-modified settings
- Utilized AWS SNS and SQS for efficient message distribution
- Tested and deployed code for a containerized application running on ECS/Fargate
- Successfully pushed code to production, enhancing user experiences across devices with fresh content

Summer 2021   June 2021 – September 2021
Problem Statement: Design and develop a feedback collection system on Alexa multimodal devices
- Created an internal Alexa Skill (1P) for feedback collection on Alexa's multimodal devices
- Leveraged various AWS services to host, monitor, and scale containerized application on ECS/Fargate
- Integrated with an internal AWS microservice for user feedback analysis
- Streamlined feedback collection and its visualization for internal teams to improve user experience

Unmanned Aerial Vehicle (UAV) Forge at UC Irvine, Irvine, CA   September 2022 – June 2023
Computer Vision Team Lead
Problem Statement: Detect a target using computer vision while 75ft+ in the air for a payload drop on target
- Developed modular software architecture for object detection, geolocation, and communication with unmanned drones using ROS and MAVROS protocols
- Led and coordinated a team of five to achieve competition objectives

PROJECTS

Hack UCI 2022, Irvine CA   February 2022
Language Stack: HTML, CSS, JavaScript, NodeJS | Framework Stack: Google Firebase, Twilio API, and ExpressJS
- Led a team of four engineers to design and develop a mobile web application to reduce wait times for exercise machines at crowded gyms
- Received awards for Best Social Good Hack and Best Product Pitch competing against 500+ participants

Antz Study Groups   August 2020 - January 2021
Language Stack: HTML, CSS, NodeJS, JavaScript | Framework Stack: Google Firebase for database and hosting
- Developed a web application facilitating study group formation for over 130 students at UCI
- Created a user-friendly interface for online profile creation and editing
- Built an integrated web chat application for seamless user communication

SKILLS

Languages: Python, Java, JavaScript (ES5, ES6), Node.js, C++, SQL, Verilog, Assembly
Technologies/Environment: AWS SNS, SQS, and EC2, MATLAB, Visual Studio, ROS, MAVROS