Fahad Asat

1-818-915-3134 · asatfahad@gmail.com · LinkedIn · Portfolio · US Citizen

Work Experience

Tata Consultancy Services, *Software Engineer* 1/21 - Present

- Developed cloud based applications with AWS, GCP, OCI, and Azure platforms in Python and Java, packaged as Docker containers.
- Built plugins to monitor, support, and acknowledge issues in production environments.
- Performed unit test and functional testing in Python with Jenkins for build/deployment.
- Developed projects using Agile methodology.
- Mentored junior engineers in the testing environment to build reliable scalable applications.

Great Minds Robotics, *Robotics Instructor* 12/18 - 6/20

- Educated students in the field of robotics by teaching them how to build and program robots in object-oriented programming languages such as C.
- Mentored kids in Lego NXT, Lego EV3, and RobotC.

Areté Associates, *Engineering Intern* 6/19 - 8/19

- Tasks included using AWS software such as EC2, S3, and Lambda to create Linux instances with Docker containers in a VPC.
- Converted manual Cyber Security guide steps into Ansible playbooks.
- Researched Twistlock and how to integrate it with Docker Enterprise/RHEL containers and determined if the combination of twistlock.com and Docker Enterprise meet the NIST 800- 190 requirements.

Education

California State University, Northridge
BS Computer Engineering Dec. 2020

Projects

Text Bot for CSUN Students Discord Channel – 4500 Users *(Javascript, Python)*

- Holds RPG and trivia games such as Pokémon in a text-based environment using the Discord.js library.
- Uses MongoDB hosted in AWS to save user and server details.
- Uses Python for image/gif manipulation.
- Scrapes data from the CSUN site such as calendar events and displays them to the user.
- A chatbot ai provides resources such as maps, study centers, water refill stations, etc.

Campus Pathfinder Project *(Javascript)*

- Takes in user position and destination within the school campus and outputs step-by-step direction with average walking time.
- Implemented Dijkstra to find the shortest route between two points.
- Uses MongoDB to hold building locations and edges.

8-Bit Computer

- Designed and built an 8-bit breadboard computer with ADD/SUB/AND instructions.
- Computer parts designed were the program counter, memory address register, memory buffer register, arithmetic logic unit containing an accumulator, input register, output register to 7 segment displays, bus architecture, and control unit containing the instruction register and various control logic.
- Used flip/flops, registers, bus transceivers, adders, logic gates, ATiny, dip switches, etc.

Technical Skills

JavaScript, Java, Python, Nodejs, HTML, CSS, MongoDB, SQL, Angular, Atlassian Tools, Jira, Linux, Docker, Git, AWS, GCP, OCI, Jenkins, Agile