**Fahad Asat**

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**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** **Dec. 2020**

B.S. Degree Candidate - Computer Engineering

**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