



Fahad Asat

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Work Experience

Tata Consultancy Services - Software Engineer

1/21 - Present

- Involved in various web applications with tasks such as database management, building the front-end architecture, and designing back-end API services.
- Developed apps between various customer relationship management tools and incident response platforms.
- Developed projects using Agile methodology.

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 - Remote

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

Clubs: VexU Robotics - Matabots

Projects

Text Bot for CSUN Students Discord Channel – 2700 Users (Python/JavaScript)

- Holds RPG and trivia games such as Pokémon in a text-based environment.
- Uses database programs to save user and server details.
- Scrapes data from the CSUN website such as calendar events and displays them to the user
- A chatbot ai provides resources such as maps, study centers, water refill stations, etc.

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.

Japanese Language Program (Java)

- Tests user's proficiency in Japanese Vocabulary, Kanji, Listening, Writing, and Reading.
- Users are tested from elementary to an advanced level of Japanese.

Technical Skills

JavaScript | Angular | MongoDB | HTML | CSS | Python | C | Java | VHDL | Verilog | SystemVerilog | Git | Arduino | Raspberry Pi | AWS (EC2, S3, Lambda)