Faris Siddiqi

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TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, HTML/CSS, TypeScript
Tech/Tools: Git, AWS, Firebase, GCP, Docker, MySQL
Libraries/Frameworks: React, Node.js, Express.js, TensorFlow, NumPy, Pandas
Operating Systems: Windows, Linux, MacOS

EDUCATION

Loyola University Chicago | Chicago, IL
B.S. in Computer Science | GPA: 3.3/4.0   **May 2026**
Relevant Courses: Object Oriented Programming, Machine Learning, Data Structures I & II, Computer Systems, Discrete Structures, Introduction to Computing Tools and Techniques

EXPERIENCE/ACTIVITIES

GoSTEM | *Python Instructor*   **January 2024 - Present**
- Designed and led an engaging "Introduction to Programming with Python" course for highschool students, adopting a project-based learning approach to foster hands-on experience and problem-solving skills among 20 students.
- Integrated real-world projects into the syllabus to enhance learning outcomes, enabling students to apply coding principles in practical scenarios such as data analysis, web scraping, and simple web development projects.
- Developed a comprehensive curriculum that covered fundamental Python programming concepts, including data types, control structures, functions, and modules, ensuring a solid foundation

Intel Student Workshop   **September 2023**
- Attended an Intel oneAPI workshop, gaining hands-on experience in utilizing Intel's oneAPI for training machine learning models, enhancing my understanding of advanced ML techniques and methodologies. om complex datasets, enhancing decision-making processes.
- Acquired practical skills in leveraging Intel oneAPI services for efficient model training, significantly deepening my knowledge in machine learning and its application in real-world scenarios.

PROJECTS

AWS Minecraft Server Bot | *python | AWS [EC2, Lambda, CloudWatch]* | **git**
- Developed a python-based discord bot that integrates with a minecraft server hosted on AWS EC2, offering direct communication, server management, and control capabilities.
- Implemented an automatic shutdown feature to optimize costs; the bot periodically checks for player activity and shuts down the EC2 instance if no activity, reducing monthly expenses from approximately $144 to $10-15.
- Automated vertical scaling of an EC2 instance based on CPU and RAM usage via a Python script executed by AWS Lambda, monitored with CloudWatch

Hand Gesture Light Control | *python | opencv | mediapipe | REST API* | **git**
- Utilized MediaPipe and OpenCV in python for hand gesture recognition, enabling philips hue light brightness control via their REST API. Brightness adjusted based on the distance between the thumb and index finger.
- This project was a self-driven effort to explore and gain practical experience in computer vision and machine learning, while also utilizing skills with REST API's.

Raspberry Pi Home Flood Detector | *python | raspberrypi* | **git**
- Developed a Python script to detect home flooding using a sensor attached to a raspberry pi.
- Automatically sends email notifications whenever the raspberry pi detects water through the sensor alerting the homeowner of the flood/leak.

Youtube Clone | *GCP | TypeScript | React | Express.js | Firebase | Docker* | **git**
- Engineered a full stack YouTube clone focusing on backend functionalities like user authentication (including Google sign-in) and video processing api to standardize quality to 360p. Utilized Google Cloud for deployment and Docker for containerization, ensuring efficient scaling and maintenance of the application.
- By applying DevOps principles, I implemented a storage solution using Google Cloud buckets and Firebase. In this setup, uploaded videos are stored with unique IDs, ensuring optimized data management and easy retrieval.