Joshua Park

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OBJECTIVE:

Syracuse University senior with experience in both research and software development. Aiming to obtain a software development/engineer position to utilize my experience and problem-solving skills

EDUCATION:

Syracuse University, College of Engineering and Computer Science
Bachelor of Science, December 2020
Major: Computer Science
GPA: 3.42
ECS Leadership Scholarship

Projects:

NearMe (Capstone Project)   https://github.com/joshuapark99/NearMe

- An iOS app that will allow users to pick locations that they would like to visit, and the app would send a notification whenever the user is within a set distance. Developed using the Agile methodology with Swift and MapKit.
- Scrum master for a group of 5 students and main communicator with project mentors. Used taiga.io to assign priorities to certain functionalities and organize sprints.

LazyBot,   https://github.com/Plaudible/lazybot

- A Reddit bot that takes an image of a face as input and puts lasers on the eyes while also "deep-frying" the image. Packages/libraries used include PRAW, OpenCV, PIL, Re standard library, Imgur API. Created during a hackathon at Syracuse.
- Assisted other members with their contributions and made sure each component worked well all together.

President Sentiment Analysis   https://github.com/joshuapark99/PresidentSentimentAnalysis

- A data mining project that collects tweets with the Twitter API and processes the tweets using the Sentiment140 API. This was used to analyze the general sentiment for each presidential candidate and "predict" the winner of the election.
- Responsible for the collection, cleaning, and organization of data from Twitter. Each tweet is only recorded if it mentions a candidates name and each state would have its own set of tweets.

SKILLS:

Programming: Java, C/C++, Python, MIPS Assembly, Haskell, Javascript, Swift, HTML, CSS
Frameworks/Tools: ReactJS, Git, TensorFlow/PyTorch, TypeScript, Node.js
Languages: Korean (Conversational), Spanish (Conversational)

COURSEWORK:

Cryptography	Web System Architecture
Evolutionary Machine Learning	Design of Operating Systems
Social Media & Data Mining	Access Control, Security, & Trust

RELATED WORK EXPERIENCE:

Software Engineer – Contractor, *Jireh Clothing,* Los Angeles, California   **June 2019 – August 2019**

- Analyze information to determine, recommend, and plan installation of a new system or modification of an existing system.
- Analyze needs and software requirements to determine the feasibility of design within summer time constraint
- Create an inventory system that would communicate with different services already being utilized to streamline the business flow

ECS REU Summer Intern, *Syracuse University,* Syracuse, New York   **June 2018 – August 2018**

- Assist Dr. Steve Chapin in developing a prototype implementation of an Electric Vehicle Charging Negotiation Platform
- Analyze and interpret quantitative and qualitative results
- Prepare reports consisting of progress and final product to be presented to the ECS REU program.
- Develop a protocol for the exchange of electrical power between the electrical grid and electric vehicles.

ENGINEERING APPLICATIONS:

Swarm Research and Design, *Jisan Research Institute,* Alhambra, California   **January 2014 – November 2016**

- Assist Dr. Sanza Kazadi in utilizing swarm design methodology to develop classes of swarm solutions to specific specifications.
- Lead a team of high school students in developing and collecting quantitative data on simulations of swarm classes.
- Research Paper Title: Generating Swarm Solution Classes using the Hamiltonian Method of Swarm Design, ICAART 2017