EDWARD C. DEAVER, IV

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EDUCATION

Le Moyne College, Syracuse, NY, May 2020
B.A. Computer Science | Minor: Communications
Honors: Medal for Excellence in Computer Science, Medal for Scholarly Regional and Urban Applied Research
Activities: Placed 2nd in Hack Upstate Fall 2020 (Is the mail here yet? – TensorFlow, OpenCV)

SKILLS

Programming: Python, NodeJS, JavaScript, P5.JS, Processing, openFrameworks (C++), Arduino (C++), ReactJS, Learning Three.JS
Operating Systems/Hardware: Windows, Mac OS, Linux, Arduino, Raspberry Pi, ESP8266
Databases: AWS DynamoDB, MongoDB, Redis
Cloud Platforms: AWS EC2, AWS S3, Heroku, Digital Ocean
Tools: Slack, Git, Figma, Splunk

PERSONAL PROJECTS

***Twitch (YouTube and my website) Control My Lights* |** May 2020 – *October 2020*
Project site *https://www.controlmylights.net/* . Project build log: *https://edwarddeaver.me/portfolio/control-my-lights/*

● Technologies used: ReactJS, NodeJS, ExpressJS (used to create an API), SocketIO (used for external networking), Redis Queues and Pub/Sub (used for real-time internal networking), Python, Selenium, Arduino (C++), openFrameworks (C++). MongoDB, rate limiting algorithm and microservices using a message-oriented middleware architecture.
● Raised $225 for Feeding America, 222 individual users sending commands and 2022 views on Twitch.

TECHNICAL WORK EXPERIENCE

Evolent Health | December 2020 – *Present*
Splunk Engineer

- Work with a diverse remote team from across the United States and India to ensure the security of the organization.
- Establish software development practices, Developer Security Operations, for the security team.
- Created Python3 integration script to feed STIX/TAXII 1.0 into Splunk deployed on Red Hat Linux Server.
- Created Python3 script to alert when device was last seen on network via CrowdStrike.
- Used Python3 Jupyter Notebook, Pandas and Plotly to create interactive graphs for increased business intelligence.
- Certified Splunk Power User.

Department of Innovation at the City of Syracuse | May 2018 – January 2020
***Computer Science Capstone Project* |** August 2019 - January 2020

- Designed and developed an interactive experience marketing exhibit to demystify 'smart' technology through clear common vernacular definitions of the system and audio-visual interactivity.
- Explored the intersections of computer science and government policy to produce trust within citizens when it comes to smart devices and ecosystems.
- Implemented and built a physical system made of Arduinos (ESP8266), Ultrasonic Distance sensors, Raspberry Pi 4, and a FadeCandy to control WS8211 NeoPixel LEDs.
- Coded final release in C++ (Arduino), and openFrameworks (C++ framework), Python (UDP), NodeJS (Express for a REST API) and initial testing in Processing (Java framework). Also, stored data in AWS DynamoDB.
- Selected work: https://edwarddeaver.me/portfolio/computer-science-bachelors-capstone/

Frontend Web Developer Intern | May 2019 - August 2019

- Used D3 JS, and Chart.JS to create a KPI dashboard utilizing CSV data.
- Selected work: https://edwarddeaver.me/portfolio/syracuse-performance-dashboard-in-client-side-javascript/

Software Engineer Intern | May 2018 - December 2018

- Constructed a proof-of-concept snowplow tracking application that operated in near real time.
- Leveraged Verizon Fleet Tracking API, GeoJSON street files, and Tile38 to produce geofences for each street block.
- Utilized Python3, JavaScript, Tile38, RabbitMQ, AWS EC2, DynamoDB, and Amazon Linux.
- Selected work: https://edwarddeaver.me/portfolio/city-of-syracuse-snow-plow-mapping-application/