

Jake Schroder

Software Developer

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My most familiar programming language is Python due to my role at Careview Communications. As of late, I have been improving my skills in Javascript and various other technologies by self teaching how to develop and deploy full stack applications, such as my clothing aggregation site at www.packrat.shop!

Full Stack Experience

Clothing Aggregation Website

www.packrat.shop

- Developed a MERN (MongoDB, ExpressJS, ReactJS, NodeJS) stack.
- Integrated Material UI components to the application to expand functionality.
- Created a web crawler using Python to retrieve json formatted product data from Shopify sites and upload normalized data to the MongoDB.
- Managing 50,000 products with many more to be added with every chosen Shopify site
- Implemented an API that serves product data, filters options, and the UI.
- Utilizes Docker Compose to ease development process and deployment of the application.
- Hosted application and database updaters in separate AWS EC2 Ubuntu instances.

Capstone Air Quality Project

First Place

- Collaborated to create a scalable air quality data aggregation and visualizer
- Developed frontend using AngularJS (Typescript) to show live wind map for the globe
- Connected wind map to NOAA wind data via api while converting gribb to json.
- Presented details of the development process to a panel of industry judges and fellow peers

Work Experience

Software Developer

Careview Communications

2019-2022

- Evaluated camera systems to determine viability for patient monitoring in the field.
- Developed luminance adaptive Python program to maintain optimal image quality.
- Utilized machine learning to produce improved models for patient monitoring.
- Communicated with field technicians to fine tune patient monitoring systems in 92 hospitals.
- Adapted a dual camera case recording program to one camera and fixed discovered bugs.

Education

B.S.

Computer Science

University of Texas at Dallas

Richardson, TX

Skills

Python | JavaScript | Java | C/C++ | SQL | Tensorflow | OpenCV | MongoDB | ReactJS | AngularJS | ExpressJS | Django | Flask | sklearn | Docker | OSX | Linux | Windows | CSS | HTML | Github | AWS | Agile | SCRUM | Material UI | Bootstrap