Huong Vu

hqvu97@gmail.com • https://qhvu.github.io/

Education

University of California, San Diego — June 2020
B.S. in Cognitive Science/Machine Learning and Neural Computation
Minor: Computer Science

Skills

Programming Languages: Python, Bash, Java, JavaScript
DevOps Tools: Docker, Docker Compose, AWS CloudFormation, Git, Bitbucket, Visual Studio Code, JIRA, MySQL

Work Experience

CureMetrix, *DevOps Intern* — Sep 2020 - Present

- Work on building internal APIs through Python packages. Packages reduce code redundancy and centralize/standardize Python-based utilities in order to assist and distribute to the research team.
- Configure servers to deploy over HTTPS by obtaining SSL/TLS certificates from Let's Encrypt. Use knowledge about TCP/IP networking, SFTP, firewalls, and routing to ensure security of applications.
- SSH into virtual servers to run unit tests on code for quality assurance.
- Write code in AWS CloudFormation to automate spinning up AWS resources and configure stacks for internationalization.
- Assist development team by deploying/running applications in Docker and keeping documentation up-to-date.
- Migrated legacy system to Docker.

CureMetrix, *Data Management Intern* — Jan 2019 - Dec 2019

- Developed Python scripts to automate the curation of metadata of radiology mammography images (DICOMs). Scripts unified all file formats for processing. Enabled software team to streamline curation process to ease the efforts of creating training and validation data sets for the data science team.
- Worked closely with radiologists to diagnose and identify ground truths in DICOMs (cancer locations and cancer types) for training sets - roughly 150 DICOMs per week.
- Regularly updated MySQL database containing patient metadata.

Projects

Housing Market Predictive Modeling | Python Application
Implemented a housing market model to predict the cost of houses on a given block in California using linear regression. Trained the model on a dataset containing categorical features including number of households, total bedrooms, population, and median income.

Char-RNN Model | Python Application
Implemented a char-RNN natural language processing model that generates a unique sequence of text. Trained the model on Shakespeare text using PyTorch.

News Article Recommender | Python Application
Implemented a KNN supervised learning algorithm to create a recommender system for news articles. Given a news article the system recommends similar articles to view.