HUONG VU

DevSecOps Intern

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EDUCATION

B.S. in Cognitive Science
(Machine Learning & Neural Computation)

University of California, San Diego

Sept 2015 – June 2020

- Minor in Computer Science

EXPERIENCE

DevSecOps Intern

CureMetrix, Inc.

Sept 2020 – Present La Jolla, CA

- 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

Data Management Intern

CureMetrix, Inc.

Jan 2019 – Dec 2019 La Jolla, CA

- 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

STRENGTHS

Docker | Docker Compose | AWS CloudFormation | NGINX | Git | Bitbucket | JIRA | MySQL | Machine Learning

Java | Python | JavaScript | Bash | HTML | CSS

PROJECTS

Housing Market Predictive Modeling
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.

Python | Linear Regression

News Article Recommender
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.

Python | K-Nearest Neighbors | Jupyter Notebook

BudgetBat
Designed and implemented a task-oriented iPhone 6/7/8 mobile app using HTML, CSS, and JavaScript that helps users budget by presenting information in a clear way. Learned how to gather user data and incorporate results into meaningful human-centered design.

HTML | CSS | JavaScript | UX | UI | Mobile Responsive

FitNection
Designed a high-fidelity prototype for a fitness app using Figma. The app was designed in the context of the COVID-19 pandemic as a way to help young adults foster meaningful virtual connections with one another during quarantine. Gained experience with working in a team where communication was entirely remote.

Figma | Prototyping | Storyboarding | UX | Needfinding

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

PyTorch | Classification | Char-RNN | Natural Language Processing