

# Huong Vu

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## Education

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University of California, San Diego

June 2020

B.S. in Cognitive Science/Machine Learning and Neural Computation

Minor: Computer Science

## Skills

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**Programming Languages:** Python, Bash, Java, JavaScript

**DevOps Tools:** Docker, Docker Compose, AWS CloudFormation, Git, Bitbucket, Visual Studio Code, JIRA, MySQL

**Software Development Tools:** Jupyter Notebook, Vim

## Work Experience

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**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.

## Projects

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### **BudgetBat | iOS Mobile Application**

Designed and implemented a task-oriented iPhone 6/7/8 mobile responsive 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.

### **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.

### **Emotion Classification | Python Application**

Investigated the effectiveness of 4 pre-trained deep learning models: AlexNet, RNN, SVM, and AlexNet-SVM on classifying emotion. Trained and tested the models on the JAFFE dataset containing 213 facial images. Used Keras in the TensorFlow library to try to implement a CNN that outperformed the accuracy achieved by the AlexNet model.