TINH NGUYEN

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EXPERIENCE

SwiftMotion **Berkeley, CA**
Research Intern **January 2017 – May 2017**

- Designed and implemented data storage solutions. Implemented REST API backend to serve web application and Android application. Programmed in Python using Django REST framework.

Meanwise **Berkeley, CA**
Backend Engineering Intern **May 2016 – August 2016**

- Implemented REST API backend to serve iOS, Android, and web app.
- Designing data models, setting up user authentication, and injecting ElasticSearch for recommendation and search.
- Programmed in Python using Elasticsearch and Django REST framework.

PROJECTS

ETF Meter and Optimum Allocation **Pleasanton, CA**
Independent Project **May 2017 - Present**

- Applied statistical and machine learning to estimate adjusted gain and gap of a stock. Given a list of stocks, the app outputs a heat map based on the stocks' scores, viewable through excel.
- This project aims to help long term investors and retirees, looking for investment with higher return while maintaining low risk.
- Deployed using Django, Postgres, AWS Elastic Beanstalk (in progress).

ChatPolitics **Berkeley, CA**
Independent Project, Cal Hacks 3.0 **November 2016**

- An application that allows users to anonymously converse one-on-one about politics.
- Deployed through Django, using django-channels for chatroom implementation.

Neural Networks / Decision Trees **Berkeley, CA**
Course Project, Machine Learning **May 2013 – January 2014**

- Implemented neural network that trains via SGD using back propagation for gradient calculations.
- Designed a generalizable decision tree and random forest class capable of training a simple model given a data matrix and the list of continuous and categorical variables.

EDUCATION

University of California Berkeley **Berkeley, CA**
Bachelor of Arts in Computer Science **2014 – 2018**
GPA*:* 3.55

Software Engineering* (cs169), Machine Learning (cs189), Security* (cs161), Algorithms (cs170), Probability and Random Processes (ee126), Databases (cs186), Artificial Intelligence (cs188), Data Structures (cs61b), Computer Architecture (cs61c), Linear Algebra (math54), Foundations of Data Science (data8), Matrices and Graphs (stat89a)

Prog. Languages: Python, Java, JavaScript, SQL, Octave**,** R, HTML, CSS, LaTeX
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