

TINH NGUYEN

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EDUCATION

University of California Berkeley
Bachelor of Arts in Computer Science

Expected May 2018

GPA: 3.55

Relevant coursework: Software Engineering, Machine Learning, Artificial Intelligence, Algorithms, Data Structures, Databases, Tech Entrepreneurship, Matrices and Graphs, Probability and Random Processes, FoDS, SICP.

EXPERIENCE

ETF Meter + Portfolio Allocation

May 2017 - Present

Independent Project

- Robust linear regression to find stock performance metrics such as: return, risk, adjusted gain, gap.
- Output a color coded excel file, to highlight trend and abnormality to long-term investors, allow them to pick more stable ETFs, then find optimum portfolio allocation proportional to return/risk.
- Deployed using Django, Postgres, and AWS Elastic Beanstalk.

SwiftMotion, Berkeley, CA

January 2017 – May 2017

Research Intern

- Designed and implemented data storage solutions at a start-up using IoT sensors for better workplace safety.
- Implemented REST API backend to serve web and Android applications.
- Programmed in Python using Django REST framework.

ChatPolitics, Berkeley, CA

November 2016

Independent Project, Cal Hacks 3.0

- Built an app that allows users to anonymously converse one-on-one about politics.
- Deployed through Django, using Django-channels for chatroom implementation.

Meanwise, Berkeley, CA

May 2016 – August 2016

Backend Engineering Intern

- Designed and programmed REST API backend to serve iOS, Android, and web applications.
- Designed data models, built appropriate RESTful routes, user authentication, recommendation and search.
- Programmed in Python using Elasticsearch and Django REST framework.

Neural Networks / Decision Trees

May 2013 – January 2014

Machine Learning Project

- Built 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.

SKILLS

Proficient in: Python, Java, JavaScript, SQL, Octave, R, HTML, CSS, LaTeX.

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