

# TINH NGUYEN

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## EXPERIENCE

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### SwiftMotion

Research Intern

Berkeley, CA

January 2017 - Present

- 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

Backend Engineering Intern

Berkeley, CA

May 2016 – August 2016

- Designed and programmed REST API backend to serve iOS, Android, and web application. Responsibilities included designing data models, building appropriate RESTful routes, setting up authentication and protection, and programming recommendation and search functionalities.
- Programmed in Python using Elasticsearch and Django REST framework.

## PROJECTS

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### ChatPolitics

Independent Project, Cal Hacks 3.0

Berkeley, CA

November 2016

- An application that allows users to anonymously converse one-on-one about politics.
- Deployed through Django, using django-channels for chatroom implementation.
- Censorship of hate speech and/or maleficent comments through sentiment analysis.

### Neural Networks / Decision Trees

Course Project, Machine Learning

Berkeley, CA

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.

### Intel Talent Search

Competition Entry, Speed Reader

Pleasanton, CA

May 2013 – January 2014

- Designed and programmed Speed Reader, a “chunking” algorithm devised to segment text into groups of words. Quick highlighting of “chunks” aimed to train users to read faster and retain more.

## EDUCATION

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### University of California Berkeley

Bachelor of Arts in Computer Science

Berkeley, CA

2014 – 2018

GPA: 3.55

Machine Learning (cs189)  
Artificial Intelligence (cs188)  
Computer Architecture (cs61c)  
Foundations of Data Science (data8)  
Linear Algebra (math54)

Algorithms (cs170)  
Data Structures (cs61b)  
Databases (cs186)  
Discrete Math and Probability (cs70)  
Matrices and Graphs (stat89a)

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

**Linkedin:** [www.linkedin.com/in/tinhnguyenucb](http://www.linkedin.com/in/tinhnguyenucb)

**Github:** [www.github.com/tinhnguyen20](http://www.github.com/tinhnguyen20)

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