XING VOONG

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Education:

University of California, Berkeley

B.A. in ***Data Science*** with a domain in ***Computer Science***.

Relevant Coursework

Computer Science:

- Structure and Interpretation of Computer Programs
- Data Structures
- Computer Architecture
- Discrete Mathematics and Probability Theory for Computer Science
- Introduction to Artificial Intelligence
- Introduction to Machine Learning
- Database
- Efficient Algorithms and Intractable Problems

Data Science:

- The Foundations of Data Science
- Probability For Data Science
- Principles and Techniques of Data Science
- Business Analytics
- Human contexts and ethics of Data Science

Mathematics:

- Linear Algebra
- Multivariable Calculus

Skills:

- Python *(proficient)*
- Java *(proficient)*
- C *(prior experience)*
- SQL *(prior experience)*
- HTML/CSS *(proficient)*
- Machine Learning *(limited exp*)

Languages:

- English *(fluent)*
- Vietnamese *(fluent)*
- Mandarin *(proficient)*
- Cantonese *(proficient)*

Objective:

I am seeking a ***Software Engineering fulltime position***. **I am a US citizen**

Experience:

Lab Assistant for Data Structures and Algs, UC Berkeley 08 – 12/2018

- Tutored for a class with 1000+ students to create a solid foundation in Java, Data Structures and Algorithms.
- Debugged projects, homework, and labs.
- Provided exam and code-writing mentoring during lab and office hours

Teaching Assistant, City College of San Francisco 01/2017 – 05/2017

- Organized and taught Fundamental Java for a class of 40 students.
- Provided in class tutoring to Computer Science students in Java.
- Accommodated and mentored individuals with different learning levels.

Projects: github.com/xingvoong

Version Control System: Backend|Java
Developed a modern version control system inspired by Github.

Google Maps Directions Finder Backend|Java
Implemented a version of Google Maps for the town of Berkeley, using A* search, NN search and k-d tree to find the shortest path.

Restaurants Searcher Backend|Python
Created a visualization of restaurant ratings using machine learning techniques such as k-means algorithm, simple least-squares linear regression, and the Yelp academic dataset.

Ants Vs. Some Bees: Backend|Python
Developed a tower defense game called Ants Vs. Some Bees, inspired by PopCap Game's Plants Vs. Zombies.

Pacman: A.I|Python
Implemented AI concepts, such as informed state-space search, probabilistic inference, and reinforcement learning through the game Pacman.

Classifiers: Machine Learning|Python
Built machine learning classifications such as Support Vector Machine, Gaussian Classifier, Decision Tree with accuracy more than 75%.

Scheme Interpreter: Backend|Python
Implemented an interpreter for the programming language Scheme.

Leadership and Awards:

Initiator – Free City College Program 08/2015 – 07/2017
Successfully initiated campuswide movement to make CCSF free for San Francisco citizens through protesting, writing letters and meeting with San Francisco Board of Education

Koret Scholarship 11/2016
Granted to outstanding first-generation college students majoring in STEM disciplines.