Khoa Q.D. Tran

2508 Ridge Rd. Apt 3, Berkeley, CA 94709
Email: khoatran@berkeley.edu - Phone: (831)402-3491
kqdtran.github.io - github.com/kqdtran

EDUCATION

University of California, Berkeley — Fall 2012 - Present
Bachelor of Arts, Computer Science. Cumulative UC GPA: 3.73
Expected graduation date: May 2014

Monterey Peninsula College — Fall 2010 - Spring 2012
Associate of Arts, Computer Science and Mathematics. Cumulative GPA: 4.00

RELEVANT COURSEWORK

Data Structures	Discrete Mathematics	Probability & Risk Analysis for Engineers
Machine Structures	Algorithms	Industrial & Commercial Database Systems
Artificial Intelligence *(Fall 13)*	Applied NLP *(Fall 13)*	Computer Networking *(Fall 13)*

EXPERIENCE

Computer Science Intern — June 2013 - Present
Ocean Tomo, LLC

- Improve workflow efficiency by implementing features that allow employees to handle "conflict checks" and job requests online, using Play Framework 2, Bootstrap, jQuery, MySQL, Circumflex ORM, and Elasticsearch
- Create interactive visualizations and reports with D3.js using data extracted from an Access database

Content Developer — March 2013 - Present
Mathapedia Research Group, EECS Department, UC Berkeley

- Build interactive contents for *CS70: Discrete Mathematics & Probability Theory* and *EE149: Intro to Embedded Systems* using LaTeX, Javascript, and MathJax

Reader/Grader — February 2013 - Present
EECS Department, UC Berkeley

- Grade weekly problem sets for 400+ students in *CS70: Discrete Mathematics & Probability Theory*
- Collaborate with TAs and other Readers to assist students in weekly office hour and on online discussion forum

Calculus Tutor — June 2012 - August 2012
Math Learning Center, Monterey Peninsula College

- Collaborated with instructors to provide one-on-one and in-group tutoring to 30+ students taking Calculus

PROJECTS

Twitter Sentiment Analysis — Python, Twitter API v1.1, OAuth2

- Opinion-mining system that determines the polarities of real-time tweets, and from there answers questions like the happiest US state, or the most popular hashtags

Project: Juice Database — MS Access, SQL

- Relational database management system with built-in SQL queries and web-based presentation slides built for *Project: Juice*, a San Francisco-based startup, in a team of 8 students

Ninja Scraper — Python, Beautiful Soup

- Command-line web scraper that automatically downloaded past exams for a selected course at UC Berkeley

Plagis — Java

- Plagiarism detector that checked for similarities among homework submissions in an Introductory Programming class taught in Java

TECHNICAL SKILLS

Languages

- *Most experienced with* Scala, Java, and Python
- *Familiar with* C/C++, HTML, CSS, JavaScript, SQL, R, LaTeX, and Bash Scripting

Software

- *Operating Systems*: Unix/Linux, Mac OS X, Windows 7/XP
- *Databases*: SQLite, MySQL, PostgreSQL, Microsoft Access
- *Frameworks & Libraries*: Play Framework 2, Flask, Twitter Bootstrap, jQuery, D3.js
- *Other Tools*: Git, Heroku, Visual Studio, Eclipse, IntelliJ, Emacs