

Khoa Q.D. Tran

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EDUCATION	University of California, Berkeley Bachelor of Arts, Computer Science. In-major GPA: 3.62 Expected graduation date: December 2014	Fall 2012 - Present
RELEVANT COURSEWORK	Data Structures Discrete Mathematics Database Systems Programming Languages Algorithms Computer Networking Artificial Intelligence Applied Natural Language Processing <i>Computer Security</i> <i>Machine Learning</i> <i>Statistical Inference</i> <i>Financial Engineering</i>	
EXPERIENCE	Research Apprentice <i>Haas School of Business, UC Berkeley</i> • Co-lead a team of 12 undergraduates in the “Computer Science for Social Science Research” group • Collect price, product, and public discourse data for the Bitcoin and vintage wine markets via web scraping • Analyze and test hypotheses & models on the emergence and maturation of product categories	February 2014 - Present Faculty Sponsor: Professor Heather Haveman
	Reader <i>EECS Department, UC Berkeley</i> • Grade weekly problem sets for 500+ undergraduates and (try to) inspire them with Discrete Mathematics • Collaborate with TAs and other Readers to assist students in weekly office hour and on online discussion forum • Write shell scripts, tutorials, and lab solutions to make grading faster and more efficient	January 2013 - Present
	Computer Science Intern <i>Ocean Tomo, LLC</i> • Reduced time to perform a “conflict check” by 50% by implementing the Conflict System in Play Framework 2 • Created interactive visualizations and reports with D3.js using data extracted from an Access database • Automated full-text patent scraping and applied text mining techniques to find similar patents • Researched and experimented with natural language processing tools & algorithms to enhance the Patent Ratings system	June 2013 - August 2013
	Course Developer <i>EECS Department, UC Berkeley</i> • Revised and expanded <i>CS70: Discrete Mathematics & Probability Theory</i> ’s lecture notes, focusing on Mathematical Induction and its applications in Computer Science	June 2013 - August 2013 Faculty Sponsor: Professor Umesh Vazirani
PROJECTS	bearRec - bearrec.herokuapp.com • A service that allows Berkeley students to search for classes related to topics they are interested in	Python, Flask, Pattern
	FTES - nbviewer.ipython.org/gist/kqdtran/d380a9b88b3affa7cfeb • Analyzes Facebook feeds to find similar posts and most popular topics with the Natural Language Toolkit. Final Project for the Applied Natural Language Processing class at UC Berkeley	IPython, Graph API
	bCheck - bcheck.hp.af.cm • Real-time Berkeley’s classroom enrollment information retrieval	Python, Bottle, BeautifulSoup
	Plagis • Plagiarism detector that checks for similarities among homework submissions using the Edit Distance algorithm	Java
TECHNICAL SKILLS	Languages • <i>Most experienced with:</i> Python, Java, Julia, Matlab/Octave, R • <i>Familiar with:</i> HTML, CSS, JavaScript, Scala, C, C++, SML, Racket, SQL, \LaTeX , Bash Scripting Software • <i>Operating Systems:</i> Unix/Linux, Windows • <i>Frameworks & Libraries:</i> Play 2, Flask/Django, jQuery, D3.js, NumPy/Pandas, Hadoop/mrjob • <i>Other Tools:</i> Git, Heroku/AppFog, AWS, Vagrant, Android, Visual Studio, Eclipse, IntelliJ, Emacs	