

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 Algorithms <i>Operating Systems</i>	Discrete Mathematics Machine Learning <i>Computational Photography</i>	Database Systems Data Mining <i>Financial Engineering</i>	Computer Security & Networking Natural Language Processing <i>Programming Languages & Compilers</i>	
EXPERIENCE	Teaching Assistant <i>EECS Department, UC Berkeley</i>				Beginning August 2014 Supervisor: Professor Anant Sahai
	Software Engineering Intern - Distributed Computing <i>Autodesk, Inc.</i>				Beginning June 2014
	Research Apprentice <i>Haas School of Business, UC Berkeley</i>				February 2014 - Present Faculty Sponsor: Professor Heather Haveman
	<ul style="list-style-type: none">Collect price, product, and public discourse data for the Bitcoin and vintage wine markets via web scrapingAnalyze and test hypotheses & models on the emergence and maturation of product categories				
	Reader <i>EECS Department, UC Berkeley</i>				January 2013 - May 2014
	<ul style="list-style-type: none">Graded weekly problem sets for 500+ undergraduates and (tried to) inspire them with Discrete MathematicsCollaborated with TAs and other Readers to assist students in weekly office hour and on online discussion forumWrote shell scripts, tutorials, and lab solutions to make grading faster and more efficient				
	Computer Science Intern <i>Ocean Tomo, LLC</i>				June 2013 - August 2013
	<ul style="list-style-type: none">Reduced time to perform a "conflict check" by 50% by implementing the Conflict System in Play Framework 2Created interactive visualizations and reports with D3.js using data extracted from an Access databaseAutomated full-text patent scraping and applied text mining techniques to find similar patentsResearched and experimented with natural language processing algorithms to enhance the Patent Ratings system				
PROJECTS	Virtual Labs <ul style="list-style-type: none">Develops simulation assignments with Professor Anant Sahai to help students taking EECS70: Discrete Math & Probability Theory gain better intuition and understanding of the material				Python, Julia
	bearRec - bearrec.herokuapp.com <ul style="list-style-type: none">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 <ul style="list-style-type: none">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 <ul style="list-style-type: none">Real-time Berkeley's classroom enrollment information retrieval				Python, Bottle, BeautifulSoup
	Plagis <ul style="list-style-type: none">Plagiarism detector that checks for similarities among homework submissions using the Edit Distance algorithm				Java
TECHNICAL SKILLS	Languages <ul style="list-style-type: none"><i>Most experienced with:</i> Python, Julia, Java, Scala, Matlab/Octave, R<i>Familiar with:</i> HTML, CSS, JavaScript, C, C++, SML, Racket, SQL, \LaTeX, Bash Scripting				
	Software <ul style="list-style-type: none"><i>Operating Systems:</i> Ubuntu, Mac, Windows<i>Frameworks & Libraries:</i> Play 2, Flask/Django, jQuery, D3.js, Python's Data Science toolbox<i>Other Tools:</i> Git, Heroku, Vagrant, Android, Visual Studio, Eclipse, IntelliJ, Emacs				