

Khoa Q.D. Tran

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EDUCATION	University of California, Berkeley Fall 2012 - Present Bachelor of Arts, Computer Science. In-major GPA: 3.50 Expected graduation date: December 2014			
RELEVANT COURSEWORK	Data Structures Machine Learning <i>Operating Systems</i>	Algorithms Data Mining <i>Financial Engineering</i>	Database Systems Natural Language Processing <i>Computational Photography</i>	Discrete Math & Probability Theory Computer Security & Networking <i>Programming Languages & Compilers</i>
EXPERIENCE	Teaching Assistant Beginning August 2014 <i>EECS Department, UC Berkeley</i> Supervisor: Professor Anant Sahai			
	Software Engineering Intern - Distributed Computing June 2014 - Present <i>Autodesk, Inc.</i>			
	Research Apprentice February 2014 - Present <i>Haas School of Business, UC Berkeley</i> 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 scraping• Analyze and test hypotheses & models on the emergence and maturation of product categories			
	Reader January 2013 - May 2014 <i>EECS Department, UC Berkeley</i>			
PROJECTS	<ul style="list-style-type: none">• Graded weekly problem sets for 500+ undergraduates and (tried to) inspire them with Discrete Mathematics• Collaborated with TAs and other Readers to assist students in weekly office hour and on online discussion forum• Wrote shell scripts, tutorials, and lab solutions to make grading faster and more efficient			
	Computer Science Intern June 2013 - August 2013 <i>Ocean Tomo, LLC</i>			
	<ul style="list-style-type: none">• 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 algorithms to enhance the Patent Ratings system			
	Virtual Labs Python, Julia <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			
	bearRec - bearrec.herokuapp.com Python, Flask, Pattern <ul style="list-style-type: none">• A service that allows Berkeley students to search for classes related to topics they are interested in			
TECHNICAL SKILLS	FTES - nbviewer.ipython.org/gist/kqdtran/d380a9b88b3affa7cfeb IPython, Graph API <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			
	bCheck - bcheck.hp.af.cm Python, Bottle, BeautifulSoup <ul style="list-style-type: none">• Real-time Berkeley's classroom enrollment information retrieval			
	Plagis Java <ul style="list-style-type: none">• Plagiarism detector that checks for similarities among homework submissions using the Edit Distance algorithm			
	Languages <ul style="list-style-type: none">• <i>Most experienced with:</i> Python, Julia, Go, 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, Hadoop, Cassandra, Python's Data Science toolbox• <i>Other Tools:</i> Git, Heroku, Vagrant, Android, Visual Studio, Eclipse, IntelliJ, Emacs			