

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	Undergraduate Student Instructor Beginning August 2014 <i>EECS Department, UC Berkeley</i> Supervisor: Professor Anant Sahai Intern - Distributed Computation on the Design Graph June 2014 - Present <i>Autodesk, Inc.</i> Python, Golang, Luigi, Amazon S3, SQS, Cassandra, Word2vec <ul style="list-style-type: none">Automate the Design Graph data pipeline using open source batch scheduler softwareImplement a bag-of-features model to classify Inventor 3D CAD's design parts 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 scrapingAnalyze and test hypotheses & models on the emergence and maturation of product categories Reader January 2013 - May 2014 <i>EECS Department, UC Berkeley</i> Supervisor: Professor Anant Sahai <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 June 2013 - August 2013 <i>Ocean Tomo, LLC</i> Python, Scala, Play 2, D3.js, scikit-learn, nltk <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			
PERSONAL PROJECTS	Virtual Labs Python, Julia <ul style="list-style-type: none">Develops simulation assignments 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 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			
TECHNICAL SKILLS	Languages <ul style="list-style-type: none"><i>Most experienced with:</i> Python, Julia, Java, Scala, Matlab/Octave, Bash Scripting<i>Familiar with:</i> HTML, CSS, JavaScript, Go, C, C++, SML, Racket, R, SQL, \LaTeX 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, AWS, Visual Studio, Eclipse, IntelliJ, Emacs			