

Khoa Q.D. Tran

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EDUCATION	University of California, Berkeley Fall 2012 - Present Bachelor of Arts, Computer Science. Cumulative GPA: 3.57 Expected graduation date: May 2014			
RELEVANT COURSEWORK	Data Structures Algorithms <i>Machine Learning</i>	Discrete Mathematics Computer Networking <i>Data Mining</i>	Database Systems Artificial Intelligence <i>Computer Security</i>	Probability & Risk Analysis for Engineers Applied Natural Language Processing <i>Combinatorics & Discrete Probability</i>
EXPERIENCE	Computer Science Intern June 2013 - August 2013 <i>Ocean Tomo, LLC</i> <ul style="list-style-type: none">Reduced time to perform "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 patents scraping from USPTO and performed Text Mining on patentsResearched and experimented with Natural Language Processing tools & algorithms to perform Latent Semantic Analysis on patents and enhance the Patent Ratings system Course Developer June 2013 - August 2013 <i>EECS Department, UC Berkeley</i> <ul style="list-style-type: none">Revised and expanded <i>CS70: Discrete Mathematics & Probability Theory</i>'s lecture notes with Professor Umesh Vazirani, focusing on Mathematical Induction and its applications in Computer Science Reader/Grader February 2013 - August 2013 <i>EECS Department, UC Berkeley</i> <ul style="list-style-type: none">Graded weekly problem sets for 400+ 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 Bash scripts and tutorials to make the grading task faster and more efficient Content Developer April 2013 - May 2013 <i>Mathapedia Research Group, EECS Department, UC Berkeley</i> <ul style="list-style-type: none">Built interactive contents for <i>EECS149: Intro to Embedded Systems</i> using \LaTeX, Javascript, and MathJax			
PROJECTS	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 bCheck - bcheck.hp.af.cm Python, Bottle, BeautifulSoup, DataTables.js <ul style="list-style-type: none">Real-time Berkeley enrollment information retriever with a list of courses that still have open seats FTES - nbviewer.ipython.org/github/kqdtran/FTES/blob/master/ftes.ipynb NLTK, Graph API <ul style="list-style-type: none">Facebook Topics Extraction System, including a mini search engine using the bag-of-words model with TFIDF weighting, as an IPython Notebook. Final Project for Applied NLP at UC Berkeley Plagis Java <ul style="list-style-type: none">Plagiarism detector that checks for similarities among homework submissions using the Edit Distance algorithm			
TECHNICAL SKILLS	Languages <ul style="list-style-type: none">Most experienced with Python, JavaFamiliar with HTML, CSS, JavaScript, C/C++, Scala, Matlab, SQL, \LaTeX, Bash ScriptingLearning Ruby on Rails, R Software <ul style="list-style-type: none">Operating Systems: Unix/Linux, Mac OSX, Windows 7/XPFrameworks & Libraries: Play 2, Flask/Django, jQuery, D3.js, Python's Data Science toolkitOther Tools: Git, Heroku, AWS, Vagrant, Visual Studio, Eclipse, IntelliJ, Emacs			