Khoa Q.D. Tran

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EDUCATION

University of California, Berkeley — Fall 2012 - Present
Bachelor of Arts, Computer Science. Cumulative UC GPA: 3.59
Expected graduation date: May 2014

Monterey Peninsula College — Fall 2010 - Spring 2012
Associate of Arts, Computer Science and Mathematics. Cumulative GPA: 4.00

RELEVANT COURSEWORK

Data Structures	Discrete Mathematics	Probability & Risk Analysis for Engineers
Machine Structures	Algorithms *(In Progress)*	Industrial & Commercial Database Systems *(In Progress)*

EXPERIENCE

Software Engineering Extern — March 2013
Constant Contact
- Shadowed engineers, observed their day-to-day routines, and discussed cultural & technical questions
- Gained a deeper understanding of the software development process and the power of version control

Content Developer — March 2013 - Present
Mathapedia Research Group, EECS Department, UC Berkeley
- Develop interactive contents for EE149: Intro to Embedded Systems using LaTeX, Javascript, and MathJax

Reader/Grader — February 2013 - Present
EECS Department, UC Berkeley
- Grade weekly problem sets in CS70, Discrete Mathematics & Probablity Theory for 400+ students
- Hold weekly office hours and go over graded problem sets with students

Calculus Tutor — June 2012 - August 2012
Math Tutoring Center, Monterey Peninsula College
- Provided one-on-one and in-group tutoring to 10+ students taking Calculus 1 and 2

PROJECTS

Database Design Project *(In Progress)* — MS Access, SQL
- Design and develop a relational database management system for Project Juice, a San Francisco-based startup, in a team of 8 students
- Develop and maintain the team's website for public presentations

Ninja Scraper — Python
- Improved and extended a scraper that automatically downloaded past exams for a selected course

Plagiarism Detection Program — Java
- Developed and implemented a primitive plagiarism detector that checked for similarities among homework submissions in an Introductory Programming class

TECHNICAL SKILLS

Programming
- *Most experienced with* Python and Java
- *Familiar with* C/C++, Scheme, SQL, Bash Scripting, and HTML/CSS/Markdown
- *Dabbled in* Scala, JavaScript, Ruby, MIPS Assembly, and Matlab

Operating Systems and Software Tools
- *Operating Systems*: Unix(Solaris)/Linux(Ubuntu), Mac OS X, Windows 7/XP
- *Databases*: SQLite, MySQL, Microsoft Access
- *Frameworks*: Flask, Bottle, Hadoop
- *Software Tools*: Git, Visual Studio, Eclipse, Emacs, LaTeX/LyX