Alex V. Khodaverdian

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Profile

University of California, Berkeley (**GPA: 3.922**),
Senior Year Student, Graduating in May 2016.
Intended Double Major in Computer Science and Applied Mathematics.

University and College

UC Berkeley

Relevant Courses Taken:

- CS61A, Structures and Interpretation of Computer Programming (Grade: A+),
- CS61B, Data Structures (Grade: A+),
- CS61C, Machine Structures (Grade: A),
- CS70, Discrete Mathematics and Probability Theory (Grade: A),
- CS188, Upper Division course in Artificial Intelligence (Grade A-),
- CS184, Upper Division course in Computer Graphics (Grade B+),
- CS186, Upper Division course in Database Systems (Grade A),
- CS170, Upper Division course in Efficient Algorithms and Intractable Problems (Grade: A),
- Math 110, Upper Division course in Advanced Linear Algebra (Grade: A+),
- Math 113, Upper Division course in Abstract Algebra (Grade: A),
- Math 128A, Upper Division course in Numerical Analysis (Grade: A),
- EE20, Electrical Engineering course in Signals and Systems (Grade: A),
- UGBA 141, Production and Operations Management (Grade: A-).

Courses Currently Taking (Fall 2015):

- CS176, Upper Division course in Algorithms for Computational Biology,
- CS169, Upper Division course in Software Engineering,
- Math 104, Upper Division course in Real Analysis,

Breathe Requirement Courses:

- PHILOS04, Philosophy course in Knowledge and Its Limits (Grade: A),
- ANTHRO2AC, Anthropology course in Introduction to Archeology (Grade: A+),
- NESTUD10, International Studies course in Near Eastern Studies (Grade A).

De Anza Community College

Relevant Courses Taken (Summer 2011 - Fall 2013):

- CIS15A, Introduction to Programming in C,
- CIS35A, Introduction to Programming in Java,
- CIS18A, Introduction to Linux/Unix,
- Math 22, Discrete Mathematics,
- Math 2B, Linear Algebra.
- Math 2A, Introduction to Differential Equations,
- Math 1A through 1D, Complete Calculus Series.

Work Experience

- Software Engineering Intern at LinkedIn Corp (Summer 2015),
  Achievements: I worked in the Tools team as a software engineer intern. I was the main developer of a software capability to capture and detect internal code commit pipeline errors. I also developed an internal metrics to monitor the status of the code commit pipeline. I built a dashboard to display the quantitative statistics of the capture exceptions. My developed dashboard was deployed in the production system and was used by the Tools Managerial team in order to detect and track improvements within this pipeline. Throughout my 12 weeks internship, a significant number of exception errors were detected within the pipeline and fixed accordingly.
- GSI in CS61C with Professors Stojanovic and Wawrzynek (Fall 2015),
- GSI in CS70 with Professor Vazirani (Spring 2015),
- Reader in CS70 with Professor Sahai (Fall 2014),
- De Anza Community College, Advanced Calculus Tutor(September 2012 – August 2013)
- Private Advanced Calculus Tutor (April 2013 – June 2013)
- Homestead High School of Sunnyvale /Cupertino, Teacher's Assistant, American Literature and Writing (August 2011 – June 2012).

Projects in Computer Science

- Programmed a functional Scheme Interpreter in Python for the CS61A course at UC Berkeley.
- Programmed a compiler for LIFC (Language similar to Scheme) in C, which compiles the code down into MIPS.
- Created a basic AI for a board game in Java, which uses game trees and alpha-beta pruning to correctly choose the next best move.
- Created a Ray Tracer for CS184, which was able to correctly model spheres and triangles, directional and point lights, and shadow and reflection rays.
- Programmed a Pac-Man AI using particle filtering which when dropped in an unknown location in a map and given only a (sometimes faulty) Sonar, would be able to correctly deduce its location, and the overall landscape.
- Created an internship application website, Napkins.io, where student's looking for internships could create a profile, and 1 click apply to internships, each application taking only several seconds to submit.

Academic Achievements

- Among 18 students from 5 high schools in the Fremont High School District of Sunnyvale / Cupertino that after a rigorous exam and interview process were admitted to the "College Now" program. In this program the high school student attends the senior year at De Anza Community College and is allowed to take university level courses.

Skills/Interests

- Good knowledge of Python, Java, C and C++.
- Experience in MIPS and Scheme.
- Excellent analytical thinker.
- Very good inter-personal skills and enjoys working within teams.
- Enjoys cross country running, basketball, soccer, and chess.