

VIJITHA SRIDHAR

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EDUCATION

University of California, Berkeley, 2013 - present

B.A., Computer Science

- The Structure and Interpretation of Computer Programs (CS 61A)
- Data Structures (CS 61B)
- Great Ideas in Computer Architecture (CS 61C)
- Multivariable Calculus (Math 53)
- Linear Algebra and Differential Equations (Math 54)
- Discrete Math and Probability Theory (CS 70)
- Physics for Scientists and Engineers I (Physics 7A): mechanics and wave motion
- Physics for Scientists and Engineers II (Physics 7B): thermodynamics, electricity, and magnetism

Evergreen Valley High School, 2009 – 2013

- Valedictorian
- Relevant AP courses: Calculus BC, Statistics, Computer Science, Physics B

EXPERIENCE

Software Engineering Intern, Intel Corporation, Santa Clara, May 2014 – August 2014

- Automated various Excel-based reports for Imaging and Camera Group's software scrum office using Visual Basic
- Wrote 5 different pieces of automation, one of which was identified 2 weeks before my departure
- Saved a team member over 13 hours of time each week

CS 61A Lab Assistant, UC Berkeley, January 2014 – May 2014

- helped students during labs in the introductory computer science class, taught in Python

Research Assistant, UC San Diego, June 2012 – July 2012

- Simulated quantum random walks in Java for Professor David Meyer
- Coded algorithms to calculate galaxy rotation curves in Java for Professor Dusan Keres

PROJECTS

- **Scheme interpreter:** built an interpreter in Python for a subset of the Scheme language
- **Network:** designed an AI program in Java to play the game Network; used the minimax algorithm and alpha-beta pruning
- **Image Blurring and Edge Detection:** utilized various data structures to blur pixels in a TIFF image and create a grayscale image from a TIFF image; written in Java
- **Free and For Sale Price Tracker:** website that tracks prices for items in UC Berkeley's Free and For Sale Facebook group; the website filters through the posts and notifies you when it finds a product matching your specified budget

TECHNOLOGIES

Python, Java, Scheme, Visual Basic, Excel Macros, HTML, CSS, Javascript