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# Work

### Cofounder of SmarterGrades

2011-present

- Designed the backend of www.smartergrades.com, a website targeting Indian students that generates math questions, gives them to students, corrects them, and gives personalized, interactive explanations
- Designed the current iteration of the front end as well
- Conceptualized and created javascript apps to make questions more interactive (e.g. www.smartergrades.com/draw)
- Completed question generators for the 6th grade curriculum
- Currently doing trials with 2 schools in Delhi, India (Vasant Valley and Vidya Niketan)

## Student Network Assistant for Oberlin College

2010-2011

- Wrote and updated perl scripts for automating tasks previously done by hand
- Set up and maintained network diagnostic tools such as flowtools and NDT
- Installed, configured, and maintained ipv6 network software such as DHCP, snmptrap, and syslog-ng

#### Intern at Rapleaf

Summer 2010

- Designed and implemented a generic web crawler for directory sites, which inferred relationships within the web page based on proximity
- $\bullet$  Created map reduce jobs for processing and generating statistics on Big Data

### Intern for Professor Ben Kuperman

Summer 2009

- Worked on Audlib, a security program that generates audit data by intercepting and recording C library function calls on all ELF executables
- Performed benchmarks and performance tests pitting audlib against auditd, which intercepts system calls to do the same

## Tutor at Oberlin College

Summer 2008-2010

• Had 2 discrete math tutees, and 2 introductory computer science tutees

# School

# Oberlin College

2007-2011

• B.A. with high honors in Computer Science

### Select Coursework

- Honors project: a spead spectrum audio watermark encoder and decoder (c)
- Various AI algorithms: bayes networks, backpropogation on neural networks, decision trees, minimax search (java)
- All major data structures (java)

# Play

# Small Personal Projecs

- Scraper for google finance historical data (bash/ruby)
- Music library organizer: uses mp3 and mp4 metadata to organize songs (bash)
- Linear Program Solver: uses and demonstrates the simplex method and tableaus (C)
- Note parser: creates electronic flash cards from notes, presents them, and records performance per flash card (java)

# Competitive programming

2008-2011

 Participated in the ACP-ICPC Regionals and Denison Spring Programming Competition 3 times each

# Skills

Languages	Tools
Ruby	Vim
Javascript	Unix
Haskell	Jquery
Scheme	Rails
С	Cascading
Java	Git
Perl	Subversion

- In order of preference.
- Width of bar indicates proficiency.