Thomas Ramfjord

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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
- 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)
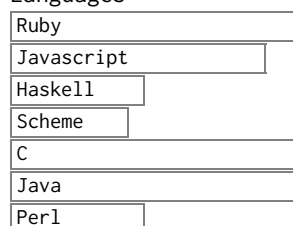- All major data structures (java)

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)

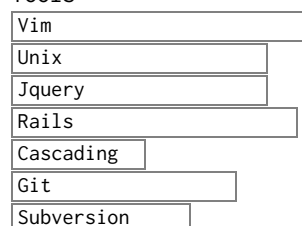**Competitive programming**   2008-2011
- Participated in the ACP-ICPC Regionals and Denison Spring Programming Competition 3 times each

Skills

Languages
- Ruby
- Javascript
- Haskell
- Scheme
- C
- Java
- Perl

Tools
- Vim
- Unix
- Jquery
- Rails
- Cascading
- Git
- Subversion

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