

Thomas Ramfjord

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github.com/ramfjord

Work

Software Engineer at Quantcast (San Francisco) 2013-present

- Ingested data from internal and external sources into our PostgreSQL reporting database. Reduced import times from hours to minutes. Decoupled imports so that one failure didn't affect others. Reduced failure rate by ~90%.
- Moved infrastructure from internal cloud to AWS, including a critical database and several microservices. Improved reliability with autoscaling and multi-AZ deployments.
- Created a monitoring service which was used across the company to send job performance info to nagios/datadog for alerting, once again to improve job reliability.
- Advocated scrum practices which were adopted by the team to improve velocity and decrease conflict.

Cofounder of SmarterGrades (New Delhi) 2011-2013

- SmarterGrades was an experimental project to personalize math education in India. Students would receive personalized problem sets, to be graded automatically. It estimated a student's proficiency at a problem class, rewarding students for problems that were neither too easy nor too hard.
- Completed interactive problem generators for the 6th Grade CBSE (Indian government standard) curriculum.
- Sold assets to Learn Today, subsidiary of India Today (May 2013)

Student Network Assistant for Oberlin College 2010-2011

- Wrote and updated perl scripts for automating tasks previously done by hand. They did not hire another Student Network Assistant the subsequent year.
- Set up and maintained network diagnostic tools such as flowtools and NDT. Installed and configured ipv6 network software such as DHCP, snmptrap, and syslog-ng

School

Oberlin College 2007-2011

- B.A. with high honors in Computer Science

Select Coursework

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

Skills

Conjures arbitrary SQL queries quickly without having to consult documentation

Implements JSON API endpoints in less code than you thought possible

Carefully considers the long term impact of architectural and design decisions

Tests literally everything

Navigates VIM at the speed of thought

Play

Sample Personal Projects (github.com/ramfjord)

- A javascript chess board with added notation to help beginners learn about key concepts (forks, hanging pieces, pins, counting attacks)
- Linear Program Solver: uses & demonstrates the simplex method and tableaus (C)
- C Trie: an experiment in C generics and the Trie datastructure (a personal fav)

Competitive programming 2008-2011

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

Favorite Video Games

2016-2017

- The Witness, Darkest Dungeon, Overwatch, Hotline Miami 2