

Matthew Schallert

mattschallert@gmail.com
(917) 309 3904
400 W 12th St. Apt 10B
New York, NY 10014

<http://schallert.io>
<http://github.com/schallert>

Education

Carnegie Mellon University
B.S. Computer Science
Minor in Business
Administration
Class of 2015

QPA 3.17
Dean's List - Spring 2013,
Spring 2014

Selected Coursework

15-213 Introduction to
Computer Systems
15-440 Distributed Systems
15-237 Cross-Platform
Mobile Web Applications
15-451 Algorithm Design
and Analysis

Work Experience

Tumblr - New York, NY

Site Reliability Engineering Intern, Summer 2014

- Created new service to continuously update infrastructure monitoring system based on the state of thousands of servers in the datacenter
- Assisted in overhauling monitoring infrastructure to improve performance and usability across all engineering teams
- Planned migration to ease transition from old to new monitoring infrastructure

Microsoft (Yammer) - San Francisco, CA

Software Engineering Intern, Summer 2013

- Worked on the Rails team that maintains the main application powering Yammer as well as various Java-based core services
- Performed profiling of the messages API and made speed improvements
- Ran a series of A/B tests that led to a 7% increase in user posting and engagement
- Tested and fixed code compatibility issues during upgrade to Ruby 1.9

WePay - Palo Alto, CA

Software Engineering Intern, Summer 2012

- Rewrote images model and transferred images infrastructure to Amazon S3, saving bandwidth costs and improving site speed
- Implemented two-factor authentication from scratch for high-volume users
- Created a new model for storing sensitive documents in a PCI-compliant manner
- Rewrote credit card processing backend to move to new processor

Projects

MakeBank (<https://github.com/schallert/MakeBank>)

- Distributed stock market simulation game written in Go for Distributed Systems class
- Users invest in stocks based on real-time data streamed from Yahoo! Finance API
- Processing distributed across workers, fault-tolerant to failure of all but one worker by using consensus algorithms to replicate data

PinsToPaper (<https://pinstopaper.schallert.io/>)

- Service to sync unread Pinboard bookmarks with Instapaper
- Built with Ruby on Rails

Tartan Textbooks (<https://tartantextbooks.com/>)

- Online marketplace for CMU students to sell and exchange textbooks
- Working with two other students, helped scrape CMU student information, build and verify student database, and set up AWS server infrastructure

Skills

Languages: Go, Ruby, C, JavaScript (w/ Node.js), SML, Python

Frameworks: Gorilla Toolkit (Go), Rails (Ruby), Sinatra (Ruby), Express (Node.js)

Tools: Amazon AWS (EC2, S3, Route53, ELB), Puppet, Nagios/Icinga, git

Databases: MySQL, Redis, Postgres