

# TREVOR I. ROTH AUS

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## EDUCATION

**Tufts University** | May 2014

Bachelor of Sciences in Computer Science

Mathematics Minor

GPA: 3.52 Dean's List

## EXPERIENCE

**DIRECTV Test Engineer Intern (Ultimate Staffing)** | May - Aug 2011/2012

- Profiled and improved department automation tool, cutting it from an hour to a few seconds
- Performed acceptance and regression testing on legacy and bleeding edge Set Top Box Products

**DIRECTV Software Engineer Intern** | May - Aug 2013

- Programmed an algorithm in C++ to parse and retrieve data from DIRECTV binary packets
- Ported a Windows transport stream analyzer program to Linux
- Used JNI and FitNesse for a testing framework for DIRECTV's C++ and Java programs
- Presented completed projects to the CTO and his direct reports at DIRECTV

**SendGrid Software Engineer** | June 2014 - Present

- Created scalable, partition tolerant, and available systems for aggregating and storing marketing stats with at-most-once delivery, handling up to 45k events/s
- Created a process that would stream data to Kafka on virtually every node in production to ensure a minimal amount of lost events, logs, and stats
- Revamped SendGrid's signup/upgrade/downgrade to be PCI compliant, user friendly, and scalable
- Optimized our Database Abstraction Layer, used by nearly every service, to handle double the load
- Presented at Golang meetups as well as company brown bag events

## TECHNICAL SKILLS

**Languages:** Golang, Elm, Python, Perl, Ruby, C, C++, JavaScript, Bash Script, Haskell, HTML, CSS

**Other:** Git, Vim, Chef, Centos, Linux Tooling (ss, strace, ps, pgrep, ngrep, tcpdump, top, uptime, ulimit)

## VARSITY ATHLETICS

**Tufts Varsity Track and Field** | September 2010 - May 2014

Pole Vaulter: Committed 10 hrs per week outside season and 20 hrs per week in season

## ACTIVITIES / LEADERSHIPS

**Boy Scouts of America** | 2002 - 2010

Eagle Scout: Over the course of several months, designed and organized volunteers to build a book kiosk in a local school library in order to create a quiet getaway for students to read and do work

**Tufts Association for Computing Machinery** | September 2011 - May 2014

Executive Board: Planned, organized, and led various computer science meetings and activities throughout the year

**Teaching Assistant** | January - May 2013, September 2013 - May 2014

Courses: Computation Theory, Programming Languages, Web Programming

**Catechist** | September 2016 - current

Create lesson plans and teach high school students about Catholicism, preparing them for Confirmation

**Knights of Columbus** | September 2012 - present

Scribe: Recorded detailed notes. Used as a point of reference to find historical decisions

**Education Platform** | October 2013

Won the JP Morgan Chase & Co. Code For Good coding challenge with an educational website for a non-profit organization