

# Jack M. Rosenthal

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## Education

### Colorado School of Mines

GPA: 3.52

- BS Computer Science (December 2017)  
Combined BS/MS (May 2019)

**Notable courses** – Game Theory and Networks\*, Elements of Computing Systems\*, Artificial Intelligence, Web Programming (Independent Study), Principles of Programming Languages, Computer Simulation, Algorithms, Database Management, Operating Systems, Software Engineering, Discrete Mathematics, Data Structures, Computer Organization

\* = currently enrolled

## Technical Skills & Interests


- **Programming Languages** – Most experienced with Python, C; some experience with PHP, JavaScript, Ruby, Haskell, C++; basic familiarity with many other languages
- **Student Organizations** – Mines ACM Chapter (President: 2016/17, 2017/18), Mines Linux Users Group (President: 2016/17, 2017/18), Mines ACM-W Chapter (Secretary: 2017/18)
- **Positions, Honors, and Awards** – Mozilla Open Source Student Leader (2017), Metcalf C-MAPP Fellow (2017), LGS Innovations C-MAPP Fellow (2016)





## Work Experience

- **Colorado School of Mines** Golden, CO  
Research Assistant (C-START: Colorado Strategic Approach to Rally Teachers) Spring 2017 – present
  - Designed and piloted 3 new CS Unplugged activities for use in UNC Teacher Education Computational Thinking course (Spring 2017)
  - Designed and led Python K-12 Professional Development Workshop (Summer 2017)
- **Colorado School of Mines** Golden, CO  
Linux Systems Administrator Spring 2016 – present
  - Systems Administrator for Linux servers owned by Dr. Tracy Camp
  - Administration of PostgreSQL, MySQL, Apache, lighttpd, postfix
- **Colorado School of Mines** Golden, CO  
Teaching Assistant Fall 2016 – present
  - CSCI-101: Intro to Computer Science: Redesigned curriculum (Summer 2017)
  - CSCI-274: Intro to Linux: Grading assignments, office hours, providing answers on student help forum (Fall 2016, Spring 2017, Fall 2017)
  - CSCI-423: Computer Simulation: Grading assignments (Fall 2017)
- **Steamboat Springs Family Medicine** Steamboat Springs, CO  
IT Support 2009 – present
  - Administrate Microsoft Active Directory services, Microsoft Office 365, and Practice Partner EHR software
  - Administrate VoIP phone system using Asterisk
- **Steamboat Networks** Steamboat Springs, CO  
Founder & CEO Spring 2013 – present
  - Provider for VoIP phone systems and service
  - Wrote Least Cost Routing software, VoIP billing software, and a web application for managing accounts

- **Camp Inc. Business Academy** Steamboat Springs, CO  
Summer 2016, Spring 2017  
Business Specialist
  - Designed introductory programming course using Python and Raspberry Pis
  - Taught coding track to 6th–12th grade students (Summer 2016)
  - Adapted course as after school coding camp for 4th–6th students (Spring 2017)
- **Camp Inc. Business Academy** Steamboat Springs, CO  
Summer 2015  
3D Printing and Design Instructor, Counselor
  - Counselor for campers in 6th–9th grade
  - Taught 3D printing and design course using SketchUp
- **Creative Bearings** Steamboat Springs, CO  
Fall 2012 – Spring 2013  
Web Development Intern
  - Worked with clients to design websites
  - Designed E-commerce website using PHP

## Projects & Open Source Contributions

 = source on GitHub

-  **CS@Mines Puzzle Challenge** (Summer 2017) – A logic puzzle competition open to all students, faculty, and staff at Mines. For the first competition in Fall 2017, 94 people participated. The open source website is at <https://puzzles.mines.edu>.
-  **Debannerizer** (Fall 2016) – Although the name may sound obscure, the Debannerizer is a tool written in Python which scrapes Mines' Self-Service Banner website for course schedules and creates a normalized database of the information using the SQLAlchemy ORM.
- **Mines Linux Users Group Website** (Present) – A website written using the TurboGears framework for Python designed to archive and display the Linux Users Group's talks and information, and communicate with our members about current happenings. You can visit the site at <https://lug.mines.edu>.
-  **Three Layout** (Fall 2015) – A keyboard layout optimized for English typing, as well as programming. Designed using a program to optimize the path length of typing a corpus of books and source code.
-  **ACMx Labs Website** (Fall 2014 - Spring 2015) – A website to showcase the projects of the Mines ACM.
- **JackFax** (2013) – A multiuser internet faxing application written in PHP which features options to use T.38 (VoIP faxing) or a fax modem, as well as provides automatic cover sheet generation, collaborative contact management, and an interactive document scanning interface using scanners wired up to Raspberry Pis.