

Ben Muschol - Software Engineer

http://benmus.ch

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EDUCATION

Northeastern University

Bachelor of Science in Computer Science; GPA: 3.71 (Magna Cum Laude)

Boston, MA

Sep. 2014 – Jun. 2019

EXPERIENCE

Airbnb

Software Engineer - Storage

San Francisco, CA

Aug 2019 - Present

- **One-Click Operations:** Developed web application allowing all developers to create and manage storage resources
- **MySQL Observability:** Deployed open-source tools to monitor DBs with automated integration into our fleet
- **Failover Automation:** Automated 50-step failover operation essential for version upgrades and other operations
- **Operational Support:** Provided operations and support for MySQL and Redis systems serving millions of QPS
- **Technologies:** MySQL, Ruby/Rails, React, Redis, AWS (Aurora, ElastiCache), Bash

Northeastern University

Undergraduate Research Assistant - Pyret Programming Language

Boston, MA

Jun 2019 - Aug 2019

- **Responsibilities:** Added a units-of-measure system to the Pyret compiler. See my work here

Northeastern University

Teaching Assistant - Web Development (CS4550)

Boston, MA

Sep 2018 - May 2019

- **Responsibilities:** Taught and graded web development work using Elixir, Phoenix, JavaScript and React

Amazon

Software Development Engineer Intern

Seattle, WA

Jun 2018 - Aug 2018

- **Full-Stack Development:** Re-designed retail page UI component for web and mobile, refactoring the back-end to support the new UI in a performant manner
- **Technologies:** Java, JavaScript, Spring, jQuery, CSS

HubSpot

Software Engineering Co-op

Boston, MA

Jan 2018 - Jun 2018

- **Kafka/Zookeeper Operations:** Maintained and automated operations tasks for high-volume Kafka and Zookeeper clusters
- **GDPR:** Developed automation and APIs to manage persisted Kafka data for GDPR compliance
- **Technologies:** Java, Kafka, Zookeeper, MySQL, Puppet, Ansible

Codeship

Software Engineering Co-op

Boston, MA

Jan 2017 - Aug 2017

- **Front-End Development:** Developed new front-end, migrating from CoffeeScript and jQuery to Vue
- **Back-End Development:** Developed features for core Ruby-on-Rails app, including a new notification system and more better account management
- **Technologies:** Ruby/Rails, JavaScript/Vue, Jest, Go, Bash, Docker, Postgres

PROJECTS

- **MIT-Tab:** Django-based application to tabulate debate tournaments. Used by 100s of debaters every week
- **MIT-Tab Deployer:** One-click deployments, back-ups, and invoicing of the MIT-Tab application.
- **Water Snake Lang:** Compiler for a custom language targeting WebAssembly with DOM interactions and a web sandbox
- **CourseOff RateMyProfessor:** Chrome extension + Express.js service to display RateMyProfessor in CourseOff

PROGRAMMING SKILLS

- **Languages:** Python, Ruby, Java, JavaScript, Elixir, OCaml, C, SQL, Bash
- **Frameworks:** Rails, Flask, Django, Vue, React, Express
- **Other Technologies:** AWS (S3, RDS, ElastiCache, EC2, Lambda), MySQL, Terraform, Docker, UNIX