

# Ben Muschol - New Grad Software Engineer

http://benmus.ch

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## EDUCATION

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- **Northeastern University** Boston, MA  
*Bachelor of Science in Computer Science; GPA: 3.64* *Sep. 2014 - Jun. 2019*

## EXPERIENCE

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- **Amazon** Seattle, WA  
*Software Development Engineer Intern* *Jan 2018 - Aug 2018*
  - **Front-End Development:** Developed front-end components for mobile and desktop retail application
  - **Back-End Services:** Refactored back-end services to improve performance and usability
  - **Technologies:** Java, JavaScript, Spring, jQuery, CSS
- **HubSpot** Boston, MA  
*Software Engineering Co-op* *Jan 2018 - Jun 2018*
  - **Kafka Operations:** Maintained and automated operations tasks for Kafka clusters that serve 80 billion messages/second
  - **Zookeeper Automation:** Developed applicaiton for automated management of Zookeeper clusters
  - **GDPR:** Developed automation and APIs to manage persisted Kafka data for GDPR compliance
  - **Load Testing:** Performed and analyzed load tests on the impacts of encrypted data
  - **Technologies:** Java, Kafka, Zookeeper, MySQL, Puppet, Ansible
- **Codeship** Boston, MA  
*Software Engineering Co-op* *Jan 2017 - Aug 2017*
  - **Front-End Development:** Developed new front-end, migrating from CoffeeScript and jQuery to Vue, ES6 and Jest
  - **Perfomance Monitoring:** Optimized performance of web endpoints and database queries
  - **Back-End Development:** Developed new features on Ruby-on-Rails application. Added a new notification management system and migrated 100k accounts to a more flexible schema
  - **Build Tools:** Maintained Go- and Ruby-based CI build systems
  - **Technologies:** Ruby/Rails, JavaScript/Vue, Jest, Go, Bash, Docker, Postgres
- **RetSKU** New York, NY  
*Software Engineering Co-op* *Jan 2016 - Aug 2016*
  - **Web Application:** Integrated 3rd-party APIs into Ruby-on-Rails web application
  - **Scraping:** Developed web crawlers to collect data from retail websites
  - **Technologies:** Python, Scrapy, Ruby/Rails

## PROJECTS

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- **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.
- **Multi-Translator:** Serverless app + Vue front-end to run phrases through multiple languages in Google Translate
- **SCOTUS at Home:** Alexa skill to play Supreme Court audio data
- **CourseOff RateMyProfessor:** Chrome extension + Express.js service to display RateMyProfessor in CourseOff
- **Hotdog or Not Hotdog as a Service:** API that uses machine learning to decide if images are a hotdog or not

## PROGRAMMING SKILLS

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- **Languages:** Python, Ruby, Java, JavaScript, Elixir, C, SQL, Bash
- **Frameworks:** Rails, Flask, Django, Vue, React, Express
- **Other Technologies:** AWS (S3, EC2, Lambda), Kafka, Zookeeper, Docker, Linux