

# Daniel Rassaby

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## Education

Sept '16-present **Northeastern University**, Boston, MA, Expected Graduation: Dec. 2020, GPA: 4.0/4.0  
Major: Bachelor of Science in Computer Science. Minors: Mathematics, Ethics  
University Scholar: Full-tuition merit scholarship. President's Award: Top 10 in university class.  
Dean's List: 5/5 semesters. Honors Program

## Experience

- Sept '19-present **Amperity** – Seattle, WA – *Software Engineering Intern*  
- Add features to microservices written in Clojure
- June '19-Aug '19 **Apple Inc.** – Cupertino, CA – *Software Engineering Intern*  
- Updated microservices framework to be technology agnostic by adding support for Python plugins  
- Created plugin that securely structurally merges conflicting secrets stored in Vault, reducing manual developer time required for this process from an hour to a few seconds  
- Created plugin that helps developers test new services on copies of real events using RabbitMQ shovels  
- Added error monitoring and reporting to 10 Django services
- Apr '19-June '19 **Northeastern University** – Boston, MA – *Researcher*  
- Built simulations of intersectional disadvantage using infinite-population evolutionary games to model bargaining for populations that have multiple identities  
- Co-authored paper published in *Social Epistemology Review and Reply Collective*
- June '18-Dec '18 **Apple Inc.** – Cupertino, CA – *Software Engineering Co-op*  
- Built utility for creating, configuring, and deploying auto-scaling, self-healing CI/CD pipelines in seconds, now used by several teams at Apple  
- Developed distributed apps running on Kubernetes  
- Created library for deploying optimized Elasticsearch clusters with minimal configuration  
- Placed second in company-wide intern cybersecurity competition
- Sept '17-Apr '18 **Northeastern University** – Boston, MA – *Computer Science Teaching Tutor*  
- Held office hours, assisted in labs, and graded and provided feedback on assignments and exams
- May '17-July '17 **Avast Antivirus** – Prague, Czech Republic – *QA Engineering Intern*  
- Created automated tests for Jenkins to compare build times and other installation metadata across nightly builds, exporting the data into Elasticsearch for visualization in Kibana

## Technologies

**Languages**: Scala, Python, Clojure, Java, C, SQL, Bash, Jsonnet, Racket  
**Tools**: Kubernetes, Docker, Elasticsearch, Git, Habitat, Unix, Vim

## Projects

- Jan '19-present **Evvo** – Co-founder and core maintainer – Open source framework for solving multi-objective optimization problems using distributed evolutionary computing – *Tech*: Scala, Akka
- Apr '19 **Tie-Fighter** – Runner-up at SharkHack 2019 – Library for interpreting and visualizing election results using multiple different social choice mechanisms – *Tech*: Python
- Feb '19 **Facebook Audit** – Winner of the *Hack to Give Back* category at HackBeanpot 2019 – Client-side web app for visualizing Facebook user data – *Tech*: Javascript

## Extracurricular Activities

- Jan '19-present **The Cute Dog Project** – Explore social choice questions with Northeastern's Philosophy Department by running a cute dog contest. I contributed to the backend (Python, deployed on Google Cloud Functions) and the data analysis. We received over 60,000 votes in 2 weeks. I presented results at 2 research conferences
- Sept '18-present **AI & Data Ethics Group** – Explore AI, ML, and data privacy questions with Northeastern's Ethics Department
- Sept '17-present **Bits&Bots** – Co-President – Develop open source curriculum and teach beginner robotics lessons in Boston. I also lead meetings, arrange funding, and coordinate with public libraries