

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-Dec '19 **Amperity** – Seattle, WA – *Software Engineering Intern*
- Wrote open source plugin integrating GoCD with Vault for secret lookup and token generation
 - Extended the Vault Clojure client to support the KV V2 API and external secret engines
 - Improved customer data access security by adding policy renewal and improving audit logging
- 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 and ran novel simulations of intersectional disadvantage using infinite-population evolutionary games to model bargaining, published paper 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 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: Clojure, Scala, Python, Java, C, SQL, Racket, Haskell
Tools: Kubernetes, Docker, Git, Vault, Elasticsearch, Unix, Vim

Projects and Extracurricular Activities

- 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
- Sept '18-present **AI & Data Ethics Group** – Explore AI, ML, and data privacy questions with Northeastern's Ethics Department
- 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*
- Sept '19-present **Rossetti Research Group** – Research the basis for deviant logic, set theory, statistics, and the scientific method
- Jan '20-present **Game Theory** – Designed novel models/simulations for multi-population evolutionary games – *Tech: Haskell*
- Jan '19-May '19 **Cute Dog Project** – Explored social choice theory by holding an online dog photo contest (receiving 30,000 votes per week). I was on the back end and data analysis team. I presented findings at 3 research conferences
- 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*