Jonathan "Sam" Stern | 703-342-7179 | sam@samstern.me | github.com/sternj | samstern.me
SKILLS: Go, Python, Rust, Java, Linux, Docker, Git, Bash, NGINX, AWS

EDUCATION

University of Massachusetts at Amherst, Amherst, MA
PhD student in Computer Science   expected May 2026
Brandeis University, Waltham MA
Bachelors of Science in Computer Science, Summa Cum Laude with Highest Honors   May 2020

Honors:
Dean's List: Fall '16, Spring '17, Fall '17, Spring '18, Fall '18, Spring '19, Fall '19, Spring '20

Relevant Courses: Distributed Systems   Operating Systems
Principles of Computer System Design   Software Engineering
Theory of Computation   Compilers (in progress)
Intro to AI   Probability

EXPERIENCE

Brandeis University Computer Science Systems Operations Office   March 2018 – August 2020
Guru
- Deploy FreeIPA authentication cluster and migrate existing user data
- Help maintain departmental Linux server cluster
- Develop new account request system in Flask and Shibboleth
- Overhaul NFS home directory routing on department-owned macOS desktops

Carbon Black, Boston, MA   June – August 2019
Engineering Intern
- Write integration tests for *ThreatHunter*
- Create tool to measure integration test coverage on *ThreatHunter* APIs
- Develop tool for monitoring AWS Kinesis and sending alerts to PagerDuty

The Motley Fool, Alexandria, VA   June – August 2018
SiteOps Intern
- Move critical web applications to newer versions of Django and upgrade related dependencies
- Deployed fixed versions to virtual infrastructure with GoCD
- Deployed new versions of applications to production environment

Brandeis University Department of Computer Science   Spring '18 – Summer '20
Teaching Assistant, Operating Systems (COSI 131a), Advanced Programming Techniques in Java (COSI 12B), Structure and Interpretation of Computer Programs (COSI 121b), Capstone Project in Software Engineering (COSI 166b)
- Tutor students in advanced data structures, unit testing techniques, and code style in Java
- Hold regular office hours, grade projects and exams

WBRS 100.1 FM   2017 – 2020
Technical Director, Studio Manager 2016-2020, Asst. Technical Director 2016-17
- Deploy new software for automation and broadcasting, and direct acquisitions for recording studio
- Lead, train, and schedule team of engineers in WBRS recording studio

PROJECTS

TomoServer
- Scalable storage and authorization services to support medical machine learning
- Robust modular design leveraging gRPC streaming to minimize turnaround time
- Granular role-based authentication customized to data model

Branda
- 4000 Users
- An application for aggregating information and communicating about Brandeis University
- Implemented reservation stack in Express and MongoDB

AutoGrader
- Written in Ruby/Ruby On Rails/Python
- Platform for uploading, testing, and distributing assignments to teaching assistants
- Isolates students' assignments by running in Docker containers