Seth Rait

srait@brandeis.edu | 716.208.7766

EDUCATION

Brandeis University
BS in Computer Science
Exp. May 2018 | Waltham, MA
GPA: 3.64
Dean's List: 5 semesters

LINKS

Github: // sethrait
LinkedIn: // sethrait
Twitter: // @sethrait

SKILLS

Programming
Most comfortable with:

Java

C#

C++

Powershell

Bash

Familiar with:

Python

JavaScript

SQL

Software
VMware suite (Horizon, vCenter, ESXi, Worsktation, etc.)
Google Cloud Platform
Vanadium
JIRA Service Desk

COURSEWORK

Cryptography and Computer Security
System Design and Architecture
Data Compression
Discrete Mathematics
SICP
Operating Systems

EXPERIENCE

Microsoft
Software Developement Intern, Garage
June 2017 – Aug 2017 | Cambridge, MA

- Used Ink input and Xamarin to build a platform which allows creators to work quickly and efficiently by removing redundant steps in the app design workflow
- Created threat models to demonstrate and remediate security vulnerabilities in my product to ensure costomer data privacy and integrity

Google
Software Engineering Intern, Cloud Security
May 2016 – Aug 2016 | Kirkland, WA

- Enabled secure storage, transfer, and integrity of data using both new and currently available encryption solutions
- Tested the efficacy of cryptographic implementations in order to examine usage viability in core infrastructure
- Modified unsafe and inefficient functionality with standardized and accepted implementations of security principles

Brandeis University Department of Computer Science Undergraduate
Department Representative
May 2016 – Present | Waltham, MA

- Liaise between students, faculty and administrators on current department issues and events
- Organize department events, generating greater involvement by students in the computer science community
- Advise new students of department and career development resources

Heller School for Social Policy and Management
Assistant Systems Administrator
December 2014 – Present | Waltham, MA

- Customize and deploy builds for Thin-Client systems
- Allocate server resources dynamically and manually to groups and pools for data/CPU intensive tasks
- Deploy 2FA and IP-blacklists to air gapped systems and SFTP servers

PROJECTS AND LEADERSHIP

Shamir Secret Sharing
Java implementation of Shamir's Secret Sharing Scheme in a finite field. Optimized the standard algorithm to achieve faster runtime with equivalent security.
http://GitHub.com/sethrait/shamir

Edgar Allen Poetry
Turing Test for poetry generated by a Markov Chain and a Neural Net. Which one, if either, can fool a person?
http://rmarcus.info/eap ,
http://GitHub.com/ryanmarcus/edgarallanpoetry

BITMAP
President of the Brandeis Initiative for Technology Machines, Apps and Programming. Brandeis University's largest and oldest tech club. Lead organizer of the annual hackathon, Codestellation
http://Codestellation.io