

# Seth Rait

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## EDUCATION

### Brandeis University

BS IN COMPUTER SCIENCE

Exp. May 2018 | Waltham, MA

GPA: 3.64

Dean's List: 3 semesters

## LINKS

Github: // [sethrait](#)

LinkedIn: // [sethrait](#)

Twitter: // [@sethrait](#)

## SKILLS

### Programming

Most comfortable with:

Java

C++

Powershell

Bash

Also utilized:

Python

JavaScript

SQL

### Software

VMware suite (Horizon, vCenter, ESXi, Workstation, etc.)

Google Cloud Platform

Vanadium

JIRA Service Desk

## COURSEWORK

Cryptography and Computer Security

Advanced Programming Techniques

Data Structures

Discrete Mathematics

SICP

Theory of Computation

Operating Systems

## EXPERIENCE

### Google

ENGINEERING PRACTICUM INTERN

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 security offerings 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>

### Subnet Reporting

Suite of programs for discovering and reporting on IP usage for statically assigned addresses on a given subnet.

<http://GitHub.com/sethrait/ipusage>

### 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>