

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> , <http://sethrait.com> ,

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/eap> , <http://GitHub>

Subnet Reporting

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

<http://GitHub>

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>