

Seth Rait

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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, Workstation, 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.
- Learned UWP, modular software design, and C#

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>