

Education

- **Brown University**
Sc.B. in Computer Science

September, 2012 - May, 2016

Current Work

- **Microsoft**
SDE Level 60
SDE Level 59

August, 2016 - Present
September, 2017 - Present
August, 2016 - August, 2017

- Team member of the Azure Compromise and Investigation Services, responsible for maintaining and developing a data pipeline that analyzes hundreds of thousands of VHDs to look for evidence of compromise
 - Contributed to the development of an internal web API to expose access to the data we collect:
 - * Set up authentication, authorization, and RBAC to limit access to specific users by leveraging Azure Active Directory and ASP .NET
 - * Increased the percent of Azure IaaS VMs supported by the web API from less than 50% to 100% by reimplementing some of the core logic in the back end
 - * Designed a framework that helped other developers with implementing our business logic for the web API
 - * Implemented parts of the core business logic by leveraging the Azure REST APIs
 - Increased the detection of malicious files by working with a separate internal team to integrate their file analysis web service with our pipeline
 - Fixed bugs, and implemented optimizations, through the course of identifying issues through on-call incidents
 - Improved the runtime of several ad-hoc investigation tools by up to 70% by modifying an existing third-party ad-hoc tool to interface with Azure VHDs
 - Improved the scheduling service to allow the reuse of existing tasks in a single pipeline, such as copying and loading data into external data stores
 - Mentored an intern through a successful project
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Previous Work Experience

- **Data Software Storage Intern at HP**

May - August, 2015

- Improved the internal development cycle for the team by improving the testing framework, by adding automated tests during build time, by integrating static code analysis tools, and by re-factoring old code from Scala into Java to align with the rest of the code base

- **TA for CS 33 (Systems Programming) and CS 32 (Software Engineering)**

Fall, 2014 - Spring, 2015

- Held weekly office hours and lab sections, modified existing projects to help with new concepts, and graded and gave feedback on projects/assignments
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Leadership Experience

- **Intern Mentor**

May - August, 2017

- Worked with my manager to come up with the requirements for a visualization tool that could help spot changes in an OS between different snapshots of the same OS. The project was successful and we used it in several investigations
 - I tried to make his internship fun and productive. As a result, I was able to convince him to accept a return offer for a full-time position
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Technology and programming languages

Proficient: C#, Powershell, Azure
Familiar: C, Java, Python

Interests and hobbies

Skiing, hiking, swimming

Arduino and microcontrollers

Was a member of the varsity swim team during my time in high school and university