

Sonny Shi

OPEN SOURCE SOFTWARE ENGINEER

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Experience

Cloud Products - Capital One

McLean, VA

SENIOR ASSOCIATE, SOFTWARE ENGINEER

July 2017 - Present

- Maintained Cloud Custodian, an open source rules engine for maintaining and management of AWS fleets. Responsible for ensuring compliance across the entire Capital One AWS footprint.
- Supported the Cloud Custodian open source community through knowledge transfer and onboarding of new contributors and users to Cloud Custodian
- Reduced annual spend of team's fleet of instances by 97% by moving to a container-orchestrated infrastructure.
- Overhauled release process to reduce manual steps and errors, reducing deployment times from up to 8 hours to less than 3 minutes.
- Built and tested Cloud Custodian policies for use across 200+ accounts.

Card Tech - Capital One

McLean, VA

ASSOCIATE SOFTWARE ENGINEER

July 2016 - July 2017

- Created resilient, self healing, and cost effective systems in the cloud, provided teams with the ability to iterate quickly and release code as fast as possible with streamlined and reliable CI/CD pipelines.
- Increased agile team cycle time to production using DevOps best practices with Source Code Management (Github), Continuous Integration (CircleCI/Jenkins), automated deployment (AWS), Configuration management (Chef) and testing (Cucumber, JUnit).
- Multi-region failover and resiliency testing with zero downtime

White Castle

Columbus, OH

SOFTWARE DEVELOPER INTERN

October 2015 - April 2016

- Modernization of an internal business application and database

HP Enterprise

Columbus, OH

SOFTWARE DEVELOPER INTERN

April 2014 - July 2015

- Bug fixing and testing for a application modernization project

Open Source Projects

Cloud Custodian

McLean, VA

LEAD CONTRIBUTOR, [WWW.GITHUB.COM/CAPITALONE/CLOUD-CUSTODIAN](https://www.github.com/capitalone/cloud-custodian)

July 2017 - Present

- Cloud Custodian is a rules engine for AWS fleet management that allows users to define policies to enable a well managed cloud infrastructure that is both secure and cost optimized
- Instrumental in assisting with community issues via Github Issues, Gitter, and reviewing and approving pull requests as well as demoing the application at conferences
- Added support for additional resources, filters, and actions to new and updated AWS resources
- Contributed updates to documentation

Education

The Ohio State University

Columbus, OH

B.S. IN COMPUTER SCIENCE AND ENGINEERING

August 2012 - May 2016

- Relevant Coursework: Systems, Algorithms, Web Applications, Databases, Networking
- Additional Studies: Typographic Design, Codes and Code-breaking
- Extracurricular: Open Source Club, Society of Asian-American Scientists and Engineers, Association of Computing Machinery

Languages & Skills

Languages

Python, Java, Javascript

Cloud

AWS (EC2, ECS, RDS, S3, Lambda, CloudFormation, CloudWatch, Route53), GCP, Azure

DevOps

Continuous Integration (CircleCI, Jenkins), Configuration Management (Ansible, Chef)

Database

PostgreSQL, MongoDB

Markup

Markdown, LaTeX, HTML