Mason Egger

Platform Engineer, Educator

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About Me

Experienced engineer having worked as both a software and systems engineer with a penchant for security, distributed systems, networking, and Python. Passionate worker and proven leader with excellent time/project/priority management skills; driven to succeed at any task. Capable learner who can not only rapidly close any knowledge gap, but enjoys teaching others and writing more practical documents/guides. Enthusiast about all things open source. Passionate educator currently volunteering teaching through the Microsoft TEALS program.

Work Experience

Sr. Software Engineer

July 2019 - Present

Vrbo, Austin, TX

Responsible for the Ministry of Truth, Vrbo's highly available cloud platform as a service used for all application deployments and container orchestration across Vrbo's hybrid multi-cloud. Supported application deployment for roughly 2000 engineers amounting to tens of thousands of containers with a team of four.

Sr. Site Reliability Engineer

March 2018 - July 2019

Vrbo, Austin, TX

Responsible for Vrbo's internal hybrid cloud Platform as a Service infrastructure, containing more than a thousand nodes and tens of thousands of containers. Worked to implement the seamless replacement of schedulers from Mesos to Nomad. Led the effort to make Vrbo a polyglot software shop by implementing first class support for Python through creating standards, pipelines, containers, and project generators for Python developers and Data Scientists. Created a unified process and led the effort for revitalizing all of the Cloud Platform documentation.

Software Engineer II

December 2015 - March 2018

Forcepoint, Austin, TX

Software Engineer I

Associate Software Engineer

Designed and implemented a Cloud based platform for CI/CD and application deployment for the Cloud 2.0 initiative on AWS. Integral part of the team that re-architected an on-premise CentOS based secure operating system in an effort to replace the legacy product. Implemented a custom plugin based initialization framework to allow for quick development of new software integrations. Implemented CI/CD pipelines for the build, code quality checks, and documentation generation of the code base. Promoted multiple times within same team.

Skills

Languages	Python, Java, C++, C
Operating Systems	Linux (All flavors), FreeBSD, OpenBSD
Systems	Docker, Artifactory, Terraform, Consul, Vault, Nomad, Packer, Vagrant, Networking, Jenkins
Cloud	AWS, Digital Ocean
Misc.	Computer Science Education

Education

2021	**Master of Science**	
		Computer Science *Georgia Institute of Technology*
2015	**Bachelor of Science**	
		Computer Science *Texas State University*
2015	**Bachelor of Arts**	
		Music, *Trombone* *Texas State University*

Awards

2016	**Silver Performance Award** *Forcepoint*
2013-2015	**Excellence in Service 2013, 2015** **Excellence in Teaching 2014** **Undergraduate Academic Distinction 2014** *Texas State University*

Volunteer

2019-2020	**Guest Lecturer**
2018-2019	**Co-Teacher, AP Computer Science A** **TEALS** *IDEA Montopolis, High School*
2015-present	**Guest Lecturer** **Industrial Advisory Board Member** *Texas State University*

Open Source Projects

UnlockedEdu - Open Source Educational Resources

https://www.unlockededu.org

Work Experience - Continued

Undergraduate Instructional Assistant
June 2012 - December 2015
Department of Computer Science, Texas State University

Lab Instructor and tutor tasked with tutoring students in a wide range of subjects and instructing course specific labs. Designed an accelerated curriculum for the advanced introductory course. Lead a team tasked with designing new software and utilities for use by faculty, staff, and students. Managed multiple departmental servers and created automated solutions for departmental tasks.

Miscellaneous

YouTube Host Mason Egger
Albums: *Trombones at Texas State*, *Carol of the Bones*