

Mason Egger

Platform Engineer, Educator

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

March 2018 - Present

Vrbo, Austin, TX

Sr. Site Reliability Engineer

Currently 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. 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. Worked to implement the seamless replacement of schedulers from Mesos to Nomad. Previously responsible for Vrbo's internal hybrid cloud Platform as a Service infrastructure, containing more than a thousand nodes and tens of thousands of containers.

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.

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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

Speaking

Building Docs Like Code:

Continuous Integration for Documentation
2019 - PyTexas, Texas Linux Fest, PyOhio, PyLatam

pfSense - A Beginner's Guide to a Sensible Firewall
2016 - Texas Linux Fest

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.

Volunteer

Microsoft TEALS

2019-2020 - Classroom Enrichment Guest Lecturer

*2018-2019 - Co-Teacher, AP Computer Science A
IDEA Montopolis, High School*

Texas State University

2015-present - Guest Lecturer

2018-present - Industrial Advisory Board Member

Miscellaneous

YouTube Host Mason Egger

Albums: *Trombones at Texas State, Carol of the Bones*