

Mason Egger

Systems and Software 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 AP Computer Science at a local high school.

Work Experience

March 2018 - present

Sr. Site Reliability Engineer

Vrbo

Responsible for HomeAway's internal hybrid cloud Platform as a Service, containing more than a thousand nodes and tens of thousands of containers. Worked to implement the seamless replacement of schedulers from Mesos to Nomad. Implemented automation tooling around the auto-scaling of clusters. Worked to implement a Data Science and Machine Learning platform through implementing standards, pipelines, and project generators for Python developers and Data Scientists. Created a unified process and led the effort for unifying all of the Cloud Platform documentation.

December 2015 - March 2018

Software Engineer II

Forcepoint, powered by Raytheon

Software Engineer I

Associate Software Engineer

Designed and implemented a Cloud based CI/CD pipeline 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.

June 2012 - December 2015

Undergraduate Instructional Assistant

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.

Open Source Projects

UnlockedEdu - Open Source Educational Resources
<https://www.unlockededu.org>

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Skills

Languages	Python, Java, C++, C, Golang,
Operating Systems	Linux (All flavors), FreeBSD, OpenBSD
Systems	Jenkins, Docker, Kubernetes, Artifactory, Terraform, Consul, Vault, Nomad Packer, Networking
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

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

2015-present **Guest Lecturer**
Texas State University

Miscellaneous

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