

Eldon Stegall

Security, Reliability, Engineering Effectiveness

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GOALS AND SUCCESSES

To build a world with greater equality, freedom, and privacy for all, leveraging my experience engineering secure software systems. My broad areas of interest are

- Distributed data systems and pipelines, especially those that can effectively be used by clusters of commodity compute infrastructure.
- SRE methodologies that improve the predictability, reliability, and resilience of systems.
- Security and privacy, especially those built around zero-trust computing and cryptographically authenticated identity.
- Mentorship and community participation to facilitate a more open, welcoming, and effective industry that uses technology for good.

Recent positions held, references and comprehensive 18 year professional software history available on request.

- Keep Technologies, 2021 - 2023, Engineer
- Roadie, 2021, Senior Software Engineer
- DataStax, 2017 - 2020, Security Architect
- CodeGuard, 2015 - 2017, Senior Software Engineer
- Apache Software, 2013 - Present, Principal Consultant

RECENT EXPERIENCE

Enjoying the agility of startups, I have maintained a career-long passion for effective collaboration in the service of security and efficiency in mission-oriented organizations. Technological efforts I have contributed to in the last 5 years include

- A **Kubernetes** operator to deploy a distributed database, enabling TLS certificate provisioning to secure communications into and between nodes. **Security, Reliability** *DataStax, 2020*
- Multiteam migration of microservices and databases from Heroku to **EKS**, including containerization and hybrid operation. **Reliability, Engineering Effectiveness** *Roadie, 2021*
- Vulnerability management, incident response coordination, disaster recovery testing, SOC 2 controls design, and **Hacker One** pentest management. **Security** *DataStax, 2020*
- A comprehensive embedded firmware system built with the **Yocto** toolkit. **Effective Engineering** *Keep Technologies, 2023*
- A **Golang** IOT agent communicating securely via **mTLS** with **AWS IOT**, and integrating with a variety of cloud functionality for video processing, observability, and cloud control. **Security, Effective Engineering** *Keep Technologies, 2022*
- A **Terraform** strategy for building and deploying per-endpoint **AWS Lambda** functions, decreasing the time to deploy new API endpoints to less than a day, including per-endpoint monitoring and Authn/Authz. **Security, Reliability** *Keep Technologies, 2021*

TECHNOLOGY FOCUS

In order to deliver services to users, I typically use and am proficient with technology and tooling such as

- JIRA, Github Issues, or Shortcut to manage IT initiative tasks, track progress and estimate milestones.
- Kubernetes or Terraform to deploy software to a cloud provider in execution environments such as Lambda, EKS or GKE. I have also worked with operating Kubernetes as a platform on bare metal in production environments.
- Golang, Python, Ruby, or Java to implement software features.
- Git, Github Actions, Gitlab Pipelines, or Jenkins to deploy code packaged in containers, virtual machines, or firmware images,
- SOC 2 to check control implementations against best practices
- GSuite or Okta to enable organization identity provisioning
- mTLS, Wireguard, Tailscale, or OpenVPN to manage network connectivity on zero-trust networks
- CIS Benchmarks and open-source conformance checkers such as Prowler to evaluate system security posture,

ADDITIONAL TOPICS, ACCOMPLISHMENTS, AND EFFORTS

Adjacent to my daily work, I love to improve my craft and contribute back to the community in a variety of ways, including

- BSc Computer Science, BSc Discrete Mathematics, Ga Tech, 2006
- Obtaining the Certified Kubernetes Administrator recognition from the Cloud Native Computing Foundation.
- Presenting at BSides Atlanta 2020 as a remote speaker on [Cloud Security tooling](#)
- Deploying and maintaining the installation of Open Source video conferencing technology enabling remote meetings of the Atlanta Cybersecurity community facilitating presentations by numerous Cybersecurity professionals to the public.
- Presentation currently in review: **Device Security via delegated AWS Credentials**
- Contributing improvements and fixes to projects such as the AWS Terraform provider, Wireshark, Cassandra, and Qemu.