

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.

- Collaborated on the design and technical implementation of controls for a distributed team to operate internal systems for Fortune 500 enterprises, and enable new LOB.
- Worked with an international team to design and build an encrypted network for IOT security devices to communicate over LTE, enabling robust application responsiveness.
- Architected secure, authenticated cloud management of devices based on least-privileged roles to ease customer management and improve satisfaction.
- Mentored junior and mid-level engineers with clarity, empathy, and humility. Joyfully watched mentees move on to mentor others in the Atlanta Infosec Community.
- Managed external pentests and regular security audits as the sole Security Architect at a company with multiple international enterprise clients, satisfying meticulous customer security stakeholders.

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
- Apalachee 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.

- Vulnerability management, incident response coordination, disaster recovery testing, SOC 2 controls design, and 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**
- Multiteam migration of microservices and databases from Heroku to EKS, including containerization and multi-environment operation. **Reliability Roadie, 2021**
- A Kubernetes operator to deploy a distributed database, enabling TLS certificate provisioning to secure communications into and between nodes. **Security DataStax, 2020**

TECHNOLOGY FOCUS

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

- JIRA, Github Issues, or Shortcut to manage IT initiative tasks, track progress and estimate milestones.
- 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,
- **Golang, Python, Ruby, or Java** to impement software features.
- Github Actions, Gitlab Pipelines, or Jenkins to continuously check the security and operation of the deployed configurations,
- 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.

ADDITIONAL TOPICS, ACCOMPLISHMENTS, AND EFFORTS

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

- BSc Computer Science, BSc Discrete Mathematics, Ga Tech, 2006
- 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, and Qemu.
- Obtaining the Certified Kubernetes Administrator recognition from the Cloud Native Computing Foundation.