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.
- Worked with an international team to design and build an encrypted network for IOT security devices to communicate over LTE.
- Architected secure, authenticated cloud management of devices based on AWS best practices and least-privileged role assignment.
- Mentored junior and mid-level engineers with clarity, empathy, and humility, encouraging those around me to strive for their best, contributing my small part to the growth of the Software and Information Security industry in Atlanta.
- Designed and managed external pentests and other security audits as the sole Security Architect at a company with multiple international enterprise clients.

> Recent positions held, references and comprehensive 18 year professional software history available on request.
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> - 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, 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*
- An 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 break-glass disaster recovery system and strategy to enable IOT device recovery in the event of upstream provider outages. **Reliability** *Keep Technologies, 2021*
- 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,
- 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.