Résumé for Kirk Strauser

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Objective

Architecture role in a security engineering team at a small company, responsible for solving complex, vaguely specified problems in ways that make both compliance teams and engineering teams happy.

Qualifications

Led the design, development, and deployment of secure, HIPAA-compliant, scalable, heavily used customer-facing features.

Managed compliance programs supporting sales enablement and regulatory framework certification.

Experience

Languages: Python, SQL, shell scripting, Rust, JavaScript / TypeScript
Platform: Linux, Docker, Terraform, GitHub, Jenkins, Slack API, Ansible, Packer, Aviatrix
App development: Flask, Django, PostgreSQL, broad experience with the Python ecosystem
AWS: EC2, ECS, S3, ELB, VPC, IAM, SSO, KMS, Route 53, CloudWatch, Lambda, RDS, WAF, Aurora, API Gateway, SES, Certificate Manager, Transfer Gateway
Security: Jamf, Okta, Netskope, Endpoint Protector, Burp Suite, Hyperproof, pen testing project management, HackerOne
Frameworks: HIPAA, SOC 2, HITRUST

Employment

Amino Health

Lead Security Architect / CISO | September 2015 — present | San Francisco, CA

Reported to the CTO and CISO to deliver cross-department compliance projects on time and on budget. Successfully completed enterprise customer-driven technical audits helping land Amino's first large customers with over $20M annual revenue. Implemented reporting and technical controls for successful SOC 2 certification, enabling shorter sales cycles.

Planned and guided engineering-wide projects to achieve HITRUST certification on budget and on time. Helped interview, hire, and train an IT department.

Designed and implemented Amino's most sensitive technical backend and cloud systems storing HIPAA-covered personal and healthcare data, with designed-in security controls that passed rigorous audits. Spearheaded and completed privacy- and security-sensitive initiatives, becoming a subject matter expert and advisor in related fields.

Synopsys / Coverity

Architect, R&D DevOps | August 2014 — September 2015 | San Francisco, CA

Assumed ownership of a server farm that builds, tests, and packages the company's software on several different hardware and software platforms. Drove the adoption of solid engineering practices to reduce unplanned developer tooling downtime and manual intervention, resulting in increased developer productivity and less frustration.

Initiated and guided the transition from manual configuration to Ansible-managed configuration for automated, repeatable server deployments. Contributed Kerberos authentication support to Ansible as part of the project.

Gathered requirements and wrote a design and transition plan for a high-performance, low-maintenance, scalable replacement for the existing build system.

Earlier career

Crittercism | Senior Software Engineer | February 2014 — August 2014 | San Francisco, CA
Drove the redesign of a large, monolithic application into a distributable service-oriented architecture.

Kwarter | Platform Engineer | July 2013 — February 2012 | San Francisco, CA
Worked with Python, Linux, AWS, and NoSQL databases (including MongoDB, Couchbase, Cassandra, and Redis) to build APIs capable of sustaining hundreds of thousands of requests per second.

GoGrid | Senior Software Engineer | January 2012 — July 2013 | San Francisco, CA
Member of the Cloud Services department, designing and implementing the infrastructure of one of the world's largest cloud hosting providers.

Daycos | Principal Software Engineer | October 2003 — December 2011 | Norfolk, NE
Designed, implemented, and deployed an external website on FreeBSD, Python, and PostgreSQL, providing data entry and extensive reporting to financial customers and U.S. Military agencies.

Projects

The Policy Wonk (https://github.com/aminohealth/wonk)
Wonk is a tool for combining a set of AWS policy files into smaller compiled policy sets.
• Designed, implemented, and published the tool as an open-source project.

Veilid (https://veilid.com/)
Veilid is an open-source, peer-to-peer, mobile-first, networked application framework.
• Wrote an app to demonstrate the platform's functionality.
• Demonstrated and explained the app's functionality at the DEF CON 31 conference.
• Interviewed by Washington Post about the project (https://www.washingtonpost.com/technology/2023/08/02/encryption-dead-cow-cult-apps-def-con/)

Education

B.S., Computer Science / Physics Minor, Missouri State University

Volunteering and Hobbies

Member of Missouri State University's Computer Science Department Advisory Board.

Amateur radio operator, "extra" class license KM6OCD.

Owns, operates, and moderates a Mastodon social media server with approximately 5,000 users.

Served as Assistant Scoutmaster with son's Boy Scout troop.

Volunteered as an adult mentor for Curiosity Hacked, including teaching Python to teens and supervising 3D printing.

Patents

US20160196398A1, "Data analysis mechanism for generating statistics, reports and measurements for healthcare decisions"