NOAH STANFORD

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Security Engineer | Identity, Systems & Product Security
Ex-SpaceX, AWS Identity, Y Combinator Founder

Summary

Security and software engineer specializing in identity, offensive security, systems security, and security-critical infrastructure. Built SpaceX's passwordless authentication stack for 10,000+ users, served as security SME for AWS Cognito across 7 service teams / 100+ engineers, and built YC-backed security products spanning FIDO2, PKI, TLS inspection, network and browser security.

Work Experience

Repacket (YC W23) Jan 2024 - Present
Founder & CEO

- Led architecture and wrote production C++ for a cross-platform endpoint TLS-inspection proxy with OS-level network integration, native HTTP/2 support, and tested throughput above 1 Gbps.
- Built JavaScript security controls injected into web pages, including LLM-powered phishing detection and DLP that blocked sensitive uploads (PII, PHI, etc) using natural-language policies.
- Created a per-device certificate authority that dynamically issued certificates for intercepted sites, keeping TLS inspection keys on customer endpoints rather than on Repacket servers.
- Owned IT and security spanning multiple AWS accounts (ECS, EKS, RDS, IAM), endpoint management, Corgea, CrowdStrike, Okta, Google Workspace, WebAuthn/FIDO2 and Tailscale

0pass (YC W23) Jan 2023 - Jan 2024
Founder & CEO, Lead Engineer

- Built a passwordless authentication platform from MVP through production, including Python web applications and a Python/Qt desktop client for Windows, macOS, and Linux.
- Implemented FIDO2/WebAuthn authentication and SAML federation with IdPs like ADFS and Okta, enabling passwordless login for enterprise applications.
- Built YubiKey enrollment and PIV certificate provisioning for hardware-backed OS login and remote access across Windows/Active Directory, macOS, Linux PAM, SSH, and RDP.
- Integrated HashiCorp Vault and customer-managed certificate authorities, supporting self-hosted and air-gapped deployments for government, defense, & high-security customers.

Amazon Web Services June 2022 - Dec 2022
Lead Security Engineer, AWS Cognito

- Primary security SME for AWS Cognito across 7 service teams / 100+ engineers; established security roadmap, vulnerability triage, and embedded security ownership across service teams.
- Triaged, reproduced, and drove mitigation of a critical auth bypass vulnerability in Cognito.
- Threat modeled SMS pumping abuse driving up to $40K/month in customer charges; designed country-based enrollment controls to limit fraudulent SMS traffic.

SpaceX June 2020 - April 2022

Lead Security Engineer, Identity

- ❖ Built SpaceID, SpaceX's passwordless authentication stack, and led its deployment across web, Windows, macOS, and Linux for 10,000+ users; coordinated principal engineers and owned the technical roadmap.
- ❖ Restored command-and-control for 2,000+ Starlink satellites during a weekend authentication outage, diagnosing an expired CRL endpoint certificate and reissuing it using offline HSMs.
- ❖ Red-teamed commercial EDR platforms (XDR, S1, Falcon) during vendor evaluations using LOTL techniques and commercial implants, testing detection and prevention capabilities.
- ❖ Built Palo Alto firewall automation and SOC tooling, and owned production SIEM alerting infrastructure (ElastAlert).
- ❖ Threat modeled software and critical infrastructure, including Dragon crew-training access, Velo3D and other manufacturing systems, and Mission network segmentation and isolation.

Eleon LLC October 2016 - June 2020

Founder & CTO

- ❖ Built the majority of a production application stack serving thousands of daily users, spanning Spring APIs, full-stack web, payments, databases, security tools, and deployment infrastructure.
- ❖ Designed a centralized API with 50+ endpoints and 100+ database operations, including connection pooling, authentication, reusable query abstractions, and cross-app services.
- ❖ Built abuse controls for L7 login flooding and payment fraud using login queueing, IP/ASN reputation, proxy/VPN detection, and threat intelligence, enabling launch without downtime.
- ❖ Automated production deployments with Docker and Ansible across AWS & OVH dedicated servers; implemented secrets handling, backups, reverse proxies, and WAF controls.

Skills

Identity & Access: SAML, OAuth/OIDC, WebAuthn/FIDO2, SSO, IAM, PAM, PIV/smart cards, Active Directory, LDAP, SCIM, JWT, mTLS, TLS/PKI, ReBAC/RBAC/ABAC, OPA, Cedar, SPIFFE/SPIRE

Security: Application Security, Threat Modeling, Penetration Testing, Network Security, DLP, Insider Threat, OT/Manufacturing Security

Systems: Linux security, Windows security/networking, WFP, containers, microVMs, Docker, Kubernetes, namespaces

Engineering: Python, Go, TypeScript/JavaScript, Java, C++, SQL, Bash, AWS/GCP/Azure

Credentials

- ❖ Offensive Security Certified Professional (OSCP)