

Christopher Allen Lane

Senior Software & Security Engineer

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Summary

Senior Software Engineer specializing in Application Security and Developer Tooling, with 20 years of experience building secure software systems, cloud platforms, and open-source tooling. Proven ability to deliver production-ready code, security-focused developer experience, and cross-team architecture improvements. Strong generalist with expertise in Go, JavaScript, and CI/CD security hardening in regulated (SOC2, PCI) environments.

Skills

- **Languages:** Go, JavaScript/NodeJS, Python, PHP, Bash, SQL, Lua
 - **Security:** AppSec, CloudSec, DevSecOps, Threat Modeling, Red/Blue Teaming, Cloudflare WAF, SAST/DAST/IAST
 - **Infrastructure as Code:** Ansible, Docker, Proxmox, GitHub Actions, GitLab CI, Terraform, AWS (EC2, S3, ECS, etc.)
 - **AI:** Prompt engineering, agent development, Claude and other agentic tooling
 - **Leadership:** Open-source project maintainer (13K+ stars), developer mentoring, technical instruction (university and private sector)
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Experience

Instructure — *2020–Present*

Senior Software & Security Engineer

- Performed internal pentests using Burp Suite and Kali Linux tools; developed custom exploit tooling in Go
- Configured, managed, and maintained scanning tools like Nessus and Invicti
- Built security-focused internal developer tooling in Go
- Advised engineering teams on AppSec best practices; conducted security-focused code reviews
- Integrated SAST/DAST/IAST scanning and shift-left practices into CI/CD pipelines
- Migrated systems from Heroku to AWS using Terraform, ECS, RDS, and Redis
- Provided security evidence and architecture for SOC2 and PCI audits
- Built security-focused AI tooling for company-wide deployment

SharpSpring (acquired by Constant Contact) — 2019–2020

Senior Platform Engineer

- Standardized deployment tooling and reduced legacy platform complexity
- Modernized tech stacks with PHP, TypeScript, Go, and GraphQL
- Led developer experience (DX) improvements across CI/CD pipelines

Lane Technical, LLC (part-time) — 2016–Present

Owner / Consultant

- Performed pentesting and vulnerability remediation for FinTech clients
- Developed internal security tooling and automation in Go
- Implemented git-centric CD pipelines to improve developer workflow security

University of Florida — 2013–2014

Adjunct Lecturer, Graduate Division

- Authored and taught graduate-level courses in HTML5, CSS, JavaScript, and responsive design
- Delivered live lectures via Adobe Connect and led coding workshops

NowSecure — 2012–2016

Senior Engineer

- Developed and maintained a large-scale NodeJS/Express platform (MongoDB, NSQ, LevelDB, Redis)
- Published proprietary and open-source `npm` modules
- Contributed to internal webapp security audits and threat modeling efforts

Prior Roles (2006–2012)

Lead Developer, Instructor, and Consultant (Apple, Ozean Media, KAR Media)

- Built full-stack web applications in LAMP and Django
 - Created performance-sensitive WordPress plugins for high-traffic sites
 - Reduced AWS hosting footprint for clients with hundreds of websites
 - Led incident response and remediation for compromised sites
 - Taught full-time web development courses at New Horizons training centers
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Open Source Projects

- [cheat](#) – CLI cheatsheet tool (~13K stars) for Unix systems
 - [owasp-password-strength-test](#) – Node.js lib, ~40K weekly downloads
 - [novahot](#) – Reverse-shell framework (included in [BlackArch Linux](#))
 - [drek](#) – Security-oriented static code review tool; featured in *2600* magazine
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Technical Interests

- **METAL APEX** – Creating solo-developed turn-based tactical game for [Pico-8](#)
 - **Homelab** – Deploying homelab running Unifi, Proxmox, Docker, numerous web services
 - **AI Tooling** – Deploying Ollama/OpenWebUI with custom Go-based developer tools
 - **CNC Machining** – Writing custom NodeJS G-code sender for Shapeoko 3 CNC mill
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Education

B.A. University of Florida — *2006*