



ASTRALIS SOFTWARE SYSTEMS

Security-Focused Software Development · DevSecOps · Cryptographic Tooling
Capability Statement

Astralis Software Systems, based in Las Vegas, is a software engineering firm specializing in cybersecurity, cloud DevSecOps, and secure software development. The firm builds and secures cloud infrastructure, develops custom software, and designs cryptographic tooling for high-assurance environments, including verifiable approval systems and tamper-evident records. Astralis pairs hands-on enterprise cloud, security, and development experience with a portfolio of self-developed security products, delivering production-grade work on compressed timelines.

CORE COMPETENCIES

- **Cloud & DevSecOps Engineering:** deployment and administration across AWS, Azure, and GCP; Kubernetes and container orchestration (Helm, Docker), infrastructure-as-code, CI/CD pipeline security, network-volume provisioning and migration, and load-balancer, networking, and container troubleshooting.
- **Cybersecurity & Security Engineering:** security assessment and remediation across AWS, Azure, and GCP; vulnerability identification and hardening, identity and access management, SSO, and TLS certificate management, data-at-rest encryption, secure DNS, nginx proxying, and VPN administration.
- **Custom Software Development:** senior-level application development in Go, Python, and modern web frameworks; protocol and cryptographic design; secure, production-grade engineering.
- **Cloud Observability & Reporting:** metrics, logging, and dashboards for infrastructure and cloud AI / ML services, turning raw telemetry into clear, decision-ready views.
- **Cryptographic & Agentic-System Security:** end-to-end encryption, N-of-M (two-person-rule) approvals, offline-verifiable tamper-evident records, and control-plane tooling for governing autonomous AI agents.

DIFFERENTIATORS

- **Integrated cloud, security, and development capability:** combines DevOps, cybersecurity, and software development in one coordinated practice, providing coverage across all three disciplines through a single teaming partner, with the agility to ramp quickly on unfamiliar architectures and deliver on compressed timelines.
- **Proprietary security-tooling ecosystem:** Netherchat (flagship, independently adversarially tested), CipherSigil (an agentic control plane governing AI-agent traffic), and CipherBond (data pseudonymization), evidencing deep, current AI-era security capability.
- **Rare AI-agent security depth:** hands-on design of tamper-proof approval and control systems that keep a verifiable human in command of autonomous agents.

RELEVANT EXPERIENCE

- **Enterprise Cloud & Platform Engineering:** deploys and administers enterprise analytics platforms on managed Kubernetes (Posit Workbench, Connect, and Package Manager via Helm, and SAS Studio); orchestrates per-team Docker builds; provisions and migrates network volumes; manages CDN and edge deployments; and resolves connectivity issues across Kubernetes, load balancers, and container images.
- **Cloud Security & Hardening:** builds automated cloud-security tooling that surfaces enterprise-wide misconfigurations and drives remediation across identity and access management, databases, and infrastructure; encrypts databases at rest; rebuilds and secures VPN infrastructure; and manages SSO, certificates, secure DNS, and nginx routing.
- **Cryptographic Product Development:** designs and builds self-hostable, security-first software; flagship product Netherchat provides end-to-end encrypted coordination with cryptographic two-person-rule approvals and offline-verifiable, tamper-evident decision records, independently validated through adversarial security testing.
- **AI-Agent Security Tooling:** develops control-plane and privacy tooling for autonomous AI systems; CipherSigil mediates AI-agent traffic locally to enforce approvals, tamper-proof evidence, and encrypted messaging, and CipherBond provides data pseudonymization (both in active development).

COMPANY SNAPSHOT

Trade Name: Astralis Software Systems
Legal Entity: Compass Rose Capital LLC
UEI: LKDFXQANFUJ1
CAGE: In process
Business Size: Small Business
State of Incorporation: Delaware
Location: Henderson, NV (Las Vegas metro)

NAICS CODES

541511 Custom Computer Programming (primary)
541512 Computer Systems Design
541519 Other Computer Related Services
513210 Software Publishers
518210 Data Processing & Hosting

PSC CODES

DA01 IT Application Development Support
D307 IT Systems Development
D310 IT & Telecom: Cyber Security
7030 IT Software

SELECTED WORK

netherchat.com
cipherbond.com

POINT OF CONTACT

Sal Kreiner
Founder & Lead Engineer
skreiner@astralis-systems.com
(424) 346-3736