HARRISON POWERS

LEAD ENGINEER | SECURE PLATFORMS & ENTERPRISE AI ENABLEMENT

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PROFESSIONAL SUMMARY

Lead engineer and first-principles systems architect with 13+ years of experience building secure, production-grade platforms across digital assets, fintech, blockchain, lending, and regulated environments. Pioneered hardware-rooted infrastructure using HSMs, vTPMs, trusted execution environments, and confidential computing, then expanded into enterprise AI enablement spanning model gateways, cost governance, developer tooling, agentic workflows, and executive adoption. Trusted advisor known for turning ambiguous, high-risk problems into reliable systems.

CORE EXPERTISE

Secure Infrastructure | Platform Engineering | Enterprise AI Enablement | Confidential Computing | HSMs, TPMs & vTPMs | Trusted Execution Environments | Secrets Architecture | LiteLLM & Vertex AI | MCP & Agentic Workflows | AWS & Google Cloud | Docker, Kubernetes/GKE, Packer & Terraform | Okta, Datadog & Grafana | Python, Go, TypeScript/JavaScript & Bash

PROFESSIONAL EXPERIENCE

BULLISH

New York, NY
May 2021 - Present

Lead Engineer, Platform Engineering

Progressed through Technical Services, Infrastructure, Secure Infrastructure, and Platform Engineering, expanding from production operations into hardware-rooted security and enterprise AI enablement.

- Pioneered Bullish's secure-infrastructure capabilities from first principles, independently researching, prototyping, and productionizing HSM- and vTPM-backed secrets, trusted execution environments, confidential-computing controls, and defense-in-depth protections for security-critical exchange workloads.
- Partnered directly with Google Cloud engineers to diagnose and help remediate multiple Confidential Compute live-migration defects, including memory synchronization instability and a vTPM synchronization race condition.
- Built a task-aware model-routing plugin for internal AI coding tools that selected the appropriate model and tuned context per task, reducing AI costs by more than 50% for participating engineers while eliminating manual agent switching and improving output quality.
- Created fine-grained cost-attribution tooling for Vertex AI where native reporting lacked the required granularity, enabling actionable analysis and optimization of enterprise model usage.
- Productionized and operated LiteLLM as an organization-wide, business-critical AI gateway used by hundreds of users, with Okta SSO, Datadog observability, AlloyDB integration, and reliability controls.
- Led development of platform-agnostic MCP integrations for Google Workspace and internal systems, and enabled third-party and open-source inference in Claude Desktop through the LiteLLM gateway for nontechnical staff.
- Created a reusable Slack-based product-management agent that tracked delivery, automated US/APAC handovers, surfaced blockers and announcements, and generated weekly red/amber/green status reports; the Head of Platform Engineering called it “the first thing I read every morning.”
- Built a unified operational status page for internal platform services and external vendors, displayed in the office as a single source of platform health.
- Advised C-suite leaders directly on AI initiatives and served as a company-wide technical authority for complex AI, infrastructure, software, and systems questions.

PROFESSIONAL EXPERIENCE - CONTINUED

VOICE
New York, NY
Apr 2020 - Apr 2021

Senior Engineer, DevOps

- Led DevOps during the founding of Voice, a blockchain-based social platform, owning platform infrastructure, blockchain operations, delivery systems, and production operations.
- Established cloud and automation foundations for application and blockchain engineering teams.

ONE ZERO CAPITAL
New York, NY
Mar 2014 - Sep 2019

Senior Engineer, DevOps / Portfolio Technical Lead

Built product, security, and infrastructure across One Zero Capital and portfolio companies including TheNumber, PhoenixABS, Better Mortgage, and Climb Credit.

- Architected highly available, autoscaling AWS environments using Docker, Packer, and infrastructure-as-code automation.
- Built ChatOps-enabled CI/CD and operational automation with Hubot; created Grafana dashboards and monitoring for network health, uptime, and deployment velocity.
- Designed high-security authentication and VPN systems for production and development environments, and delivered HIPAA-compliant infrastructure for regulated workloads.
- Co-founded TheNumber and led its security-focused infrastructure, DevOps platform, observability, authentication, and production-access capabilities.
- Built HIPAA-compliant infrastructure at PhoenixABS supporting RIP Medical Debt.
- At Better Mortgage, built client-facing functionality in Ember.js and the supporting AWS, Docker, and Hubot-based delivery platform.
- At Climb Credit, led development of AngularJS client-facing and loan-servicing applications and their supporting cloud and DevOps systems.

BILANCIO MANAGEMENT
Purchase, NY
2013 - 2014

Lead Engineer

- Led development of native iOS and web applications designed to improve the customer experience.

SELECTED OPEN-SOURCE CONTRIBUTIONS

- **MLX:** fixed a CMake/Python interpreter mismatch that could produce an extension for the wrong Python version during pip installation.
- **Google Cloud Magic Modules / Terraform Provider for Google Cloud:** added a missing confidential-compute disk feature value and corrected misleading storage documentation.
- **LiteLLM and the Datadog Terraform Provider:** submitted production-driven fixes for Unix-domain-socket LLM observability and Terraform plan-time validation of computed values.
- **Google Cloud Scion and Claude Squad:** improved container-image build tooling and added Gemini assistant support.

SELECTED INDUSTRY ENGAGEMENT

Selected Attendee, Google Cloud AI Live + Labs & Executive Infrastructure Summit | 2026

Participated in invitation-only technical dialogue with Google engineering leaders on ultra-low-latency cloud architecture, kernel-bypass networking, virtualization jitter, and precision time synchronization.

EDUCATION

PURCHASE COLLEGE, SUNY 2007 - 2009
Bachelor of Arts (B.A.), Liberal Arts and Sciences / Liberal Studies

BABSON COLLEGE 2005 - 2006
Entrepreneurship and Business Management