

Luke Encrapera

AI Engineer | Security & Identity Architect | Founder @ AI & Sons

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PROFESSIONAL SUMMARY

AI engineer, security architect, and founder with deep experience building intelligent systems, secure automation, and enterprise identity architecture across startup and large-scale corporate environments. Founder of AI & Sons, an AI security and engineering consulting company focused on AI-native applications, multimodal systems, secure automation platforms, and privacy-conscious software solutions. Backed by over 6 years of enterprise identity engineering experience across Microsoft Entra ID, Active Directory, Microsoft Identity Manager, and Delinea Secret Server, with a proven track record leading RBAC architecture and secure automation at enterprise scale. Tool-agnostic and comfortable operating across rapidly evolving AI platforms to select the best stack for each use case.

CORE TECHNICAL SKILLS

AI Engineering: LLM Integration, Prompt Engineering, Retrieval Augmented Generation (RAG), Multimodal AI Applications, Computer Vision, Agentic Workflows, AI Automation Systems, AI-Assisted Development

Software Engineering: JavaScript, TypeScript, Node.js, Python, PHP, REST APIs, Full-Stack Development

Cloud, DevOps & Infrastructure: Google Cloud Platform, Azure, AWS, Firebase, Vercel, Docker, NGINX, GitHub Actions, CI/CD Pipelines, Playwright

Security & Architecture: Application Security, Identity & Access Management (IAM), Privileged Access Management (PAM), Role-Based Access Control (RBAC), Zero Trust Architecture, Microsoft Graph API, Penetration Testing Concepts

Identity Platforms: Microsoft Entra ID, Active Directory, Microsoft Identity Manager (MIM), Delinea Secret Server, Exchange, ServiceNow, Workday

PROFESSIONAL EXPERIENCE

Founder & Lead AI Software Engineer, AI & Sons July 2025 - Present | Remote

- Founded an AI security and engineering consulting company delivering AI-native applications, multimodal systems, secure automation, and privacy-conscious software solutions.
- Launched platforms including AudioDescript, Fridge2Fork, Cabinet2Cocktail, Slither, and AI & Sons Games using modern LLM ecosystems, computer vision, and cloud-native architecture across GCP, Azure, AWS, Firebase, Vercel, and Docker.
- Lead AI security auditing and production-readiness consulting with focus on secure design, automation safety, privacy, and credential hygiene.

Information Security Analyst, Giant Eagle, Inc. Oct 2025 - Present | Pittsburgh, PA

- Develop identity security automation with PowerShell and Microsoft Graph to strengthen monitoring, enforcement, and operational resilience.
- Implement secure credential governance with Delinea Secret Server, support identity investigations, and partner with IAM and infrastructure teams on Zero Trust aligned automation.
- Analyze identity infrastructure workflows to eliminate insecure practices and improve credential-safe automation standards.

Identity & Access Management Analyst, Giant Eagle, Inc. Mar 2020 - Oct 2025 | Pittsburgh, PA

- Owned enterprise identity architecture supporting about 100,000 users, 300,000 Active Directory groups, 1,800 applications, and 60+ lifecycle workflows.
- Designed and led enterprise RBAC rollout and built lifecycle automation across MIM, Active Directory, Entra ID, Secret Server, ServiceNow, and Workday.
- Delivered MFA baseline enrollment, stale-account remediation, and secure secret retrieval automation that removed embedded credentials from scripts.
- Served as an SME for MIM, Secret Server, Azure identity systems, and Active Directory operations supporting critical IAM response and recovery.

Earlier Roles 2014 - 2020

- Information Technology Support Specialist (Contract), Giant Eagle: supported enterprise MFA rollout and identity onboarding.
- Systems Administrator & IT Security, DICK'S Sporting Goods: owned first-call resolution across enterprise systems, access issues, and store technology operations.
- President & Lead Web Developer, Vinix Inc (S-Corp): founded and operated a web development and infrastructure consulting business.

EDUCATION, CERTIFICATIONS & PROGRAMS

Colorado State University
Computer Science / Software Engineering coursework, 2014 - 2017

Certification
Microsoft Identity Manager Advanced Training

Front Range Community College
Computer Science coursework, 2014 - 2016

Programs
Apple, Google Play, and Minecraft developer programs; authorized to publish through AI & Sons