Alexa Amundson

AI Systems Engineer | Prompt Engineering & Multi-Agent Architecture
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Professional Summary

AI systems engineer specializing in multi-agent orchestration, reinforcement learning, and secure prompt engineering. Experienced in translating complex AI architectures into production environments—building federated LLM systems that cut cloud dependency by 40% and implementing policy-driven security frameworks. Brings a background in structured product analysis, risk modeling, and regulatory compliance from the finance sector. Focused on privacy-first, governance-aligned AI infrastructure.

Technical Experience

BlackRoad Inc. / Prism Console Project — AI Training Systems Engineer & Founder | 2023 – Present
• Designed and deployed a local multi-LLM orchestration platform integrating 7+ models (Qwen, Llama, Mistral, Claude, GPT, Grok), reducing cloud API reliance by 40%.
• Implemented an Evolution Strategies (ES) reinforcement learning framework using antithetic sampling and closed-form gradient estimation for local training without cloud compute.
• Built the Infinity Prompt Catalog—treating prompts as data with objectives, workflows, and verification logic to enable reproducible experiments and quality scoring.
• Developed a Rego-based Zero Trust policy engine for workflow validation, integrating continuous scanning (Semgrep, Trivy, CodeQL), secret rotation, and artifact signing.
• Created multi-agent delegation systems with reflexive feedback loops, cutting workflow solve times by 50%+ while maintaining conversational CI/CD deployment through natural-language GitHub Actions.
Tech Stack: PyTorch, Hugging Face, Enclave AI, OPA/Rego, GitHub Actions, TLS 1.3/AES-256, Semgrep, Trivy, CodeQL

Securian Financial — Internal Sales Senior Analyst / Internal Annuity Wholesaler | Jul. 2024 – Present
• Translated complex investment structures into scalable advisor training programs, driving $9.9M+ YTD sales with 33% MoM advisor growth.
• Built compliance frameworks for 6,000+ Salesforce records to mitigate FINRA Rule 2210 risks via data auditing and validation logic.
• Led automation of Salesforce tools (Click-to-Dial, tracking workflows) to enhance outbound efficiency—mirroring AI pipeline orchestration.
• Selected as national presenter for LPL Due Diligence and Winter Sales Conference, training 24,000+ advisors on risk and product positioning.

Ameriprise Financial — Financial Advisor In-Training | Jul. 2023 – Jun. 2024
• Identified $18.4M in new AUM through data-driven client segmentation and Salesforce pipeline optimization.
• Ranked #1 nationally for qualified appointment setting via predictive outreach strategy.
• Delivered 97% client satisfaction through clear translation of technical financial concepts.

Education

University of Minnesota – Twin Cities — B.A., Strategic Communication: Advertising & Public Relations | 2018 – 2022
Relevant Coursework: Real Estate Finance, Microeconomics, Leadership, Project Management, Psychology of Advertising

Licenses & Certifications

• Securities & Insurance: SIE, Series 7, 63, 65 | Life & Health Insurance
• Technical (in progress/eligible): AWS ML Specialty, TensorFlow Developer

Skills

AI/ML: Evolution Strategies (ES), Reinforcement Learning, Multi-Agent Systems, Prompt Engineering, Parameter Optimization
Security & Governance: Zero Trust Architecture, OPA/Rego, Cryptographic Signing, RBAC/ABAC, Secret Management
Development: Python, PyTorch, Git/GitHub Actions, CI/CD Automation, Bash
Data & Analytics: SQL, Salesforce CRM, Excel (Pivot Tables, VLOOKUP), Data Validation Frameworks
Compliance & Risk: FINRA Regulations, Audit Workflows, Vulnerability Scanning (Semgrep, Trivy, CodeQL)

Leadership & Recognition

• Securian Winter Sales Conference Presenter (2x) – National broker-dealer training lead
• LPL Due Diligence Presenter – Reached 24,000+ financial advisors
• National Speech & Debate Finalist | MN State Finalist
• Elected Leadership Roles: Class President, Debate Captain, Band Section Leader

Interests

AI alignment and safety, distributed systems, cryptography, economic theory, options markets, behavioral psychology