

Dan Raymond

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PRINCIPAL / STAFF AI & PLATFORM ENGINEER | AI PLATFORM ARCHITECTURE |

AGENT SYSTEMS | AUTOMATION

PROFESSIONAL SUMMARY

AI platform engineer and technical leader with 15+ years spanning software engineering, DevSecOps, automation, and production AI. Owns architecture and delivery across Python/FastAPI services, agentic systems, document intelligence, and cloud-native platforms, translating ambiguous business and mission workflows into secure, reliable production systems. Leads cross-functional technical direction, mentors engineers, evaluates build-vs-buy tradeoffs, and remains hands-on through the critical implementation path. Delivered measurable outcomes including an estimated \$250K+ in annual ATA engineering and QA efficiency gains and \$1.2M in annual savings from Lockheed release automation.

CORE EXPERTISE

Platform & Solution Architecture | Agentic AI & AI Agents | AI Transformation & Adoption | Technical Product Ownership | Engineering Leadership & Mentoring | Stakeholder Discovery | LLM/ML Systems | AI Evaluation & Governance | Business Process Automation | DevSecOps | Cloud & Kubernetes

TECHNICAL STACK

AI/ML: PyTorch, Hugging Face Diffusers/Transformers, LangGraph, OpenAI API, RAG, supervised ML, OCR, AWS Textract, Tesseract, CUDA

Backend: Python, FastAPI, REST APIs, WebSockets, SQL, C#/.NET, Bash

Data/Platform: PostgreSQL, pgvector, Redis, Docker, Kubernetes, AWS, Azure, Terraform, Nix, Ansible, Tailscale, Caddy

Delivery/Security: GitHub Actions, GitLab CI/CD, Jenkins, OIDC, OAuth/JWT, DevSecOps, CompTIA Security+ CE

PROFESSIONAL EXPERIENCE

ATA LLC

November 2025 - Present

Senior Python/AI Engineer | AI Transformation & Platform Lead

Leads AI adoption and platform architecture across production AI/ML, automation, document intelligence, and engineering quality, partnering across engineering, QA, product, and company leadership.

- Own AI/automation solution architecture from stakeholder discovery through production delivery, translating business workflows into technical designs and platform decisions.
- Led company-wide AI adoption through onboarding, policies, and practical agent-assisted engineering patterns, contributing to an estimated \$250K+ in annual engineering and QA efficiency gains.
- Built end-to-end document-intelligence pipelines with Python, AWS Textract, and Tesseract, eliminating manual processing for selected document classes at 90%+ extraction accuracy.
- Designed supervised ML models with Label Studio and Extra Trees for form classification and field mapping, improving automated mapping accuracy by approximately 40%.
- Architected an AI-assisted QA automation framework that raised automated test coverage to 80% and reduced regression defects by 50%.
- Led build-vs-buy evaluations of custom ML versus AWS Comprehend and established reproducible Python, Nix, and container service patterns for AI/ML workloads.

AUTOGRATION

March 2025 - November 2025

Founder & Principal AI Automation Consultant

Advised business owners and stakeholders on automation opportunities, workflow redesign, solution architecture, integration strategy, and technical tradeoffs from discovery through production delivery.

- Built IntelPrep.ai, an AI career platform using FastAPI, OpenAI models, structured generation/scoring, document/PDF tooling, Docker/NGINX/MySQL, Kubernetes ingress/TLS, and GitHub CI/CD.
- Translated client workflows into secure integrations and automation, reducing manual effort by as much as 60% in selected processes.
- Owned product strategy, architecture, implementation, deployment, and client delivery end to end.

Senior DevSecOps Engineer | February 2023 - March 2025

Led secure DevOps and Kubernetes operations supporting mission-critical defense systems in a regulated environment.

- Maintained and troubleshot 50+ CI/CD pipelines and containerized microservices, saving hundreds of engineering hours per quarter and generating an estimated \$100K+ in quarterly efficiency gains.
- Automated image approval and deployment workflows, reducing deployment and setup time by 90% while improving delivery consistency.
- Led Kubernetes reliability improvements and root-cause remediation that reduced downtime by 50%.
- Built automated UI-testing workflows using Python, Robot Framework, Tesseract OCR, and OpenCV, saving hundreds of manual testing hours.

Integration Lead (Team Lead & Product Owner) | October 2021 - February 2023

Led a seven-person team and served as product owner on a \$500M defense program, coordinating software, infrastructure, network, and cybersecurity work affecting 150+ engineers.

- Partnered across engineering, infrastructure, cybersecurity, program leadership, and operations to translate mission and compliance requirements into technical priorities, architecture decisions, and delivery plans.
- Architected Python and Ansible automation that replaced multiple tools and removed approximately two weeks of manual effort from each release cycle, generating an estimated \$1.2M in annual savings.
- Defined a DevSecOps modernization roadmap aligned with compliance, deployment reliability, and mission-readiness requirements.
- Coordinated cross-functional engineering and operations delivery, reducing handoff errors and operational risk.

Earlier Lockheed Martin Roles | DevOps Engineer; Computer Operations Support Analyst

Supported 40+ applications and mission-critical missile-defense systems across live/simulated test events and 24/7 operations; built Bash/Ansible automation, partnered with cybersecurity teams, and troubleshot systems, networks, and deployment workflows.

VISION AND SECURITY TECHNOLOGY LAB

February 2013 - October 2015

System Administrator

- Supported early AI and computer-vision research, including machine-learning data calibration for facial-recognition systems.
- Automated public-video collection for model-training workflows and reduced troubleshooting/server deployment time by approximately 75% through PXE-based imaging and deployment.

SELECTED ENGINEERING PROJECTS

ExoBrain - Multi-Tenant AI Agent Platform

Architected a reusable local-first agent platform with authenticated Account -> User -> Persona isolation, OIDC onboarding, tenant-scoped state, durable workers, document workflows, signed remote-agent gateways, manifest-driven extensions, private-model routing over Tailscale, and hardened Docker/Caddy deployment.

Della - Persistent Autonomous AI Companion

Built a persistent persona/runtime on ExoBrain with durable identity, long-term memory, actor-aware relationship context, planning, tool/capability selection, proactive outreach, approval/resume workflows, browser execution, and fail-closed security boundaries.

WebbDuck - Local AI Inference & Image Generation Platform

Built an architecture-agnostic FastAPI/PyTorch platform supporting SDXL, FLUX/FLUX.2, Krea 2, and Qwen-Image across isolated model runtimes; added adaptive VRAM planning, queued GPU jobs, WebSocket progress, FP8/GGUF/Safetensors support, model/LoRA discovery, and optimized Krea identity inference by approximately 42% on tested hardware.

OpenDuck - Autonomous AI Sales & Outreach Platform

Built a production-oriented agentic platform using FastAPI, LangGraph, PostgreSQL/pgvector, Redis workers, and APScheduler for campaign orchestration, lead workflows, A/B testing, and adaptive outreach, with approval gates, auditability, Docker/Caddy deployment, Terraform/DigitalOcean infrastructure, and GitHub Actions.

EDUCATION & CERTIFICATION

Bachelor of Innovation in Business Information Systems with Engineering Cross-Core - University of Colorado Colorado Springs, 2016

CompTIA Security+ CE - Active through 2027