

# Austin Potter

AI Solutions Engineer • Full-Stack Developer

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## SUMMARY

AI Solutions Engineer who transitioned from instructional design by architecting and shipping production AI systems over the last 2+ years. End-to-end builder across FastAPI backends, async workers/queues, React UIs, RAG/LLM orchestration, observability, RBAC/JWT, and cost control. Pragmatic about reliability, measurable impact, and maintainable MLOps.

## CORE SKILLS

- **AI/LLM:** OpenAI, Anthropic, Vertex AI; open-source models (Llama, Qwen, DeepSeek), OpenRouter, prompt design, evaluation
- **RAG/Vector Stores:** ChromaDB, Qdrant, FAISS, Pinecone, Elasticsearch, MongoDB
- **Frontend:** React, Svelte, TypeScript, Tailwind, Mantine UI
- **Data/Analytics:** BigQuery, dashboards, health checks, alerting
- **Backend/Platform:** Python, Java, FastAPI, PostgreSQL, SQLAlchemy/Alembic, Redis/Valkey (RQ), SSE, Stripe, JWT/RBAC, LTI 1.3, Playwright
- **Ops/Infra:** Docker, GitHub Actions, GitLab CI/CD, DigitalOcean, Prometheus/Grafana, caching, rate limits, cost monitoring

## RECENT AI APPLICATIONS

### Scribcraft — AI Book Generator (2023–Present)

- Architected and shipped multi-chapter narrative generation maintaining character/POV/plot consistency.
- Directed-graph pipeline (outline → chapters → edits) + Editor Pipeline (dedupe, prose refinement, pacing).
- Admin for providers/models/tiers; Stripe subscriptions + credits; JWT/RBAC; SSE progress; file browser.

Stack: FastAPI, React, PostgreSQL, SQLAlchemy/Alembic, Redis (RQ), OpenRouter, Stripe, Docker, GitHub Actions, DigitalOcean, Mantine UI

### Praxis → Vertex AI Bridge (Capella)

- OpenAI-compatible API surface to swap to Vertex models without app changes; caching, rate limits, cost monitoring.
- Health checks and Prometheus/Grafana metrics; alerting.
- Result: 30%+ AI cost reduction with <2s avg response time.

### CiteRite — AI-Driven Citation Integrity (Capella)

- Automated parsing and validation of citations with AI scoring (accuracy/existence/relevance) and anti-bot scraping.
- Scalable async queue (Redis + workers), React (TS) UI; Playwright for navigation/testing.

### Canvas Assignment Customizer (LTI 1.3) (Capella)

- Real-time personalization for instructions/examples/rubrics using Gemini; seamless LMS launch via LTI 1.3.
- Admin views for non-technical staff; analytics for engagement improvements.

### Ivori — AI University Advisor Bot (Capella)

- RAG assistant across programs/policies; adviser dashboard with triage.

Stack: FastAPI, React, PostgreSQL, ChromaDB, Gemini

### Falcor — AI-Powered Course Content Generator

- Productionized a modded Open WebUI authoring environment with multi-provider LLM pipelines and plugin architecture.
- Reduced course drafting from days to < 1 hour.

## PROFESSIONAL EXPERIENCE

### ScribeCraft AI — Business Owner / Lead Developer | Longmont, CO | Jan 2023–Present

- Sole architect and implementer of Scribcraft platform.
- FastAPI backend; Postgres schema with Alembic; Redis/RQ queue; React frontend with error recovery.
- Stripe (subscriptions/credits/webhooks), OpenRouter integration; Docker/DigitalOcean; admin dashboard and observability.

### Capella University — Instructional Designer (Operating as AI Solutions Engineer) | Jul 2021–Present

- Delivered multiple production systems (Praxis–Vertex bridge, CiteRite, Canvas LTI customizer, Ivori, JEDI WIP).
- Established patterns for RBAC/JWT, caching, rate limits, CI/CD, error recovery; cross-functional collaboration.

### Earlier Roles

- Instructional Designer, ARVC — Feb 2021–Jun 2021
- Instructional Designer, Rent-A-Center — Jan 2020–Feb 2021
- Social Studies Teacher, Dallas ISD — Aug 2015–Jan 2020

## AI CURRICULUM AUTHORED

- AI1000 — Foundations of Generative AI (Author & builder): Five-week beginner course introducing generative AI through hands-on exploration. Learn core concepts, prompt engineering, and ethical use while creating text, images, music, and simple applications within a supportive learning community. 2,000+ completions; hundreds each quarter.
- AI2000 — Advanced AI Applications (Author & builder): Comprehensive, cross-domain introduction to AI's practical impact. Through activities, podcasts, and discussions, explores applications across creativity, healthcare, business, education, and autonomous systems while developing critical perspectives on ethics, security, and future trends.

## EDUCATION & CERTIFICATIONS

- Graduate Certificate, Workplace Instructional Design — Boise State University (2018–2020)
- Bachelor of Arts (B.A.), Education — University of Nebraska at Kearney (2009–2014)
- Associate of Arts (A.A.), Studio Audio — Full Sail University (2006–2008)