

Walker Escobar

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SUMMARY

Senior AI Engineer with seven years of software engineering experience building production AI and machine learning applications, **distributed systems**, and reusable platform services. Specializes in agentic AI architecture, **multi agent orchestration**, Python APIs, microservices, **event driven systems**, large language model integration, prompt engineering, **retrieval augmented generation**, and production tool connectivity. Builds secure, observable foundations for enterprise teams, with practical work spanning agent registration, discovery, memory, state management, routing, retries, authentication, throttling, and policy enforcement. Implements OpenTelemetry tracing, structured logging, metrics, dashboards, alerting, automated evaluations, regression tests, guardrails, and red team scenarios. Partners with architecture, security, governance, and engineering teams to deliver responsible AI capabilities for regulated and data intensive environments.

EXPERIENCE

Senior AI Platform Engineer March 2024 - Present
Vector Harbor Technologies Chicago, IL

- Leads shared **agentic AI platform** work for multiple product teams, owning reusable Python services, orchestration, model access, observability, evaluation, governance, and production delivery.
- Architected shared Python services for **agent registration**, discovery, memory, **task execution**, and tool integration
 - Directed LangGraph workflows with event routing, delegation, retries, durable state, and failure recovery
 - Centralized model and tool access through authentication, throttling, provider routing, and policy controls
 - Instrumented agent operations with OpenTelemetry, structured logs, metrics, dashboards, and actionable alerts
 - Built evaluation pipelines using benchmarks, **regression tests**, guardrails, and red team scenarios for safer releases
 - Partnered with security and governance teams on **responsible AI** controls, containers, **CI/CD**, and production support

AI and Machine Learning Software Engineer January 2022 - February 2024
Lakefront Analytics Systems Chicago, IL

- Delivered **production Python** services for language model and **machine learning** applications in a data intensive enterprise setting, connecting retrieval, APIs, containers, evaluation, and operational controls.
- Moved reusable Python AI capabilities from prototypes into dependable production services for enterprise users
 - Built **retrieval augmented generation** workflows with vector search, prompt templates, tools, and evaluation datasets
 - Created REST APIs and **microservices** for inference and data services using containers and CI/CD pipelines
 - Applied LangChain orchestration for tool using applications with **failure handling**, tracing, and diagnostics
 - Added structured logs, metrics, alerts, and distributed traces that isolated model and dependency failures
 - Applied access controls, **secrets management**, data handling reviews, and production readiness checks with platform engineers

Software Engineer, Distributed Systems July 2019 - December 2021
North Loop Software Labs Minneapolis, MN

- Engineered Python microservices and event driven data workflows, establishing reusable distributed systems patterns for reliability, deployment, observability, integration, and incident response.
- Engineered **Python** microservices and event components for high volume data workflows across cloud environments
 - Designed asynchronous **APIs** with retry, idempotency, timeout, and failure handling across service dependencies
 - Containerized services and maintained CI/CD pipelines for testing, artifacts, deployment, and rollback
 - Instrumented applications with structured logs, service **metrics**, traces, and alerts for production visibility
 - Created shared libraries for **authentication**, request validation, configuration, and external service **integrations**
 - Resolved production incidents through **root cause analysis**, corrective engineering, and automated regression tests

PROJECTS

Enterprise Agent Operations Foundation 📅 2025
Created a reusable platform concept for agent registration, discovery, execution, memory, state, tool access, observability, and evaluation across enterprise domains.

Responsible LLM Evaluation Program 📅 2024
Developed an evaluation approach combining benchmark datasets, regression coverage, guardrails, safety checks, and red team scenarios for language model applications.

LEADERSHIP & AWARDS

- Selected as AI Platform Engineering Mentor by Chicago Developer Community, supporting engineers through practical agent architecture discussions.
- Recognized as Technical Reviewer for Internal Responsible AI Engineering Guild, shaping secure and accountable engineering guidance.

EDUCATION

Bachelor's Degree in Computer Science
University of Minnesota GPA: 3.8
Coursework: Distributed systems, machine learning, software engineering, database systems, artificial intelligence

2019
Minneapolis, MN

CERTIFICATIONS

- Microsoft Certified: Azure AI Engineer Associate 📅 2025
- DeepLearning.AI Generative AI with Large Language Models 📅 2024

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Bash
- **Agent Frameworks:** LangGraph, LangChain, Semantic Kernel
- **LLM Engineering:** Prompt engineering, RAG, tool integration
- **API Development:** REST, Python APIs, OpenAPI
- **Microservices:** Service design, inference services, data services
- **Distributed Systems:** Event driven systems, asynchronous processing, durable workflows
- **Cloud Platforms:** Microsoft Azure, cloud deployment, managed services
- **Containers and CI/CD:** Docker, CI/CD pipelines, automated deployment
- **Observability:** OpenTelemetry, structured logging, distributed tracing
- **Monitoring:** Metrics, dashboards, alerting
- **Evaluation and Safety:** Benchmarks, regression tests, guardrails
- **Security Controls:** Authentication, throttling, policy enforcement
- **Data and Retrieval:** Vector retrieval, evaluation datasets, data handling
- **Reliability Engineering:** Retries, idempotency, timeout handling
- **Responsible AI:** Red teaming, secure by design, governance

SKILLS

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|-----------------------|-------------------------|------------------------|-----------------------|
| • Python | • LangChain | • Tool Integration | • Distributed Systems |
| • Agentic AI | • Large Language Models | • APIs | • Cloud Platforms |
| • Multi Agent Systems | • Prompt Engineering | • Microservices | • CI/CD |
| • LangGraph | • RAG | • Event Driven Systems | |

PROFESSIONAL AFFILIATIONS

- AI Platform Engineering Mentor, Chicago Developer Community, building relationships through peer coaching and technical problem solving.
- Technical Reviewer, Internal Responsible AI Engineering Guild, collaborating with architecture, security, and governance practitioners.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST