

# Silas McCormick

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## SUMMARY

Dynamic Senior Engineer with over 8 years in AI-driven solutions and multi-agent systems. Proven expertise implementing full-stack observability while architecting production-grade AI platforms. Strong communicator with a passion for mentoring cross-functional teams through challenging technical hurdles. Developed observability frameworks, enhancing the reliability of production systems and ensuring alignment with enterprise goals. Trained in architecting scalable infrastructures using advanced orchestration methods. Hands-on in deploying Generative AI applications, continually optimizing processes to boost efficiency and effectiveness.

## EXPERIENCE

### Senior Engineer

January 2022 - Present

Tech Innovations LLC

Naperville, IL

As a Senior Engineer at Tech Innovations, responsible for building AI foundations that meet strict compliance standards, promoting security and data-driven outcomes within enterprise applications.

- Designed an AI foundation layer compliant with GxP regulations, establishing crucial processes.
- Led architecture efforts to develop multi-agent systems, collaborating closely with security and data teams.
- Created observability frameworks to ensure production reliability and resilience.
- Implemented continuous feedback loops, enhancing response times across technical operations.

### Mid-Level Engineer

June 2018 - December 2021

NextGen AI Systems

Peoria, IL

Engineered reliable AI solutions efficiently utilizing sophisticated architectures, providing innovative strategies to advance clinical and operational domains.

- Developed complex AI solutions leveraging LangChain to improve system effectiveness.
- Coordinated with diverse teams to convert broad business requirements into detailed AI architectures.
- Constructed and maintained robust RAG pipelines, ensuring swift model retrieval and evaluation.
- Assured proactive enhancements, maximizing team collaboration within projects.

### Junior Engineer

May 2016 - May 2018

Future Vision Technologies

Champaign, IL

A Junior Engineer supporting machine learning model development focused on NLP and LLM applications, contributing valuable insights to projects by improving efficiency.

- Assisted in creating diverse machine learning models, focusing on natural language processing applications.
- Participated in deploying AI systems, engaging in process improvement discussions.
- Contributed knowledge on system efficiencies leading projects towards completion.
- Helped optimize workflows, resulting in smoother execution of technical tasks.

## LEADERSHIP & AWARDS

- Recipient of the 'AI Innovator Award' for exceptional contributions to AI project development in 2022.
- Recognized as 'Employee of the Month' at Tech Innovations for exemplary teamwork and leadership in March 2023.

## EDUCATION

### Bachelor's Degree in Computer Science



2016

University of Illinois GPA: 3.5

Champaign, IL

**Coursework:** Data Structures, Algorithms, Software Engineering, Machine Learning

## CERTIFICATIONS

- Certified AI Engineer  2021
- AWS Certified Solutions Architect  2020

## TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, Go
- **Frameworks:** FastAPI, Flask, Django
- **Cloud Platforms:** AWS, Azure, Google Cloud

- **Tools & Libraries:** LangChain, TensorFlow, PyTorch
- **DevOps Tools:** Docker, Kubernetes, Jenkins
- **Database Technologies:** PostgreSQL, MongoDB, MySQL
- **Orchestration Frameworks:** LangGraph, CrewAI, OpenAI Agents SDK
- **Design Patterns:** Microservices, MVC, Event-Driven Architecture
- **Dev Methodologies:** Agile, Scrum, Kanban
- **Testing Frameworks:** pytest, unittest

## SKILLS

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- Python
- AI/ML Systems
- System Design
- Multi-Agent Systems
- FastAPI
- NLP
- API Development
- Observability Frameworks
- LangChain
- Generative AI
- Production Quality Coding
- Async Programming
- OpenTelemetry
- Cloud Platforms
- AI Agent Architectures
- RESTful API Design

## PROFESSIONAL AFFILIATIONS

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- Volunteered with local STEM education initiatives, inspiring future generations in technology.
- Member of the National Society of Professional Engineers, committed to networking and professional growth.

## LANGUAGES

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- English (Native)
- Spanish (Intermediate)

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST