

# Silas McCormick

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## SUMMARY

Results-driven AI Workflow Engineer with over 5 years of experience developing and optimizing data workflows for research applications. Proven expertise in integrating AI technologies to enhance operational efficiency and drive innovation. Skilled in collaborating with cross-functional teams to deliver impactful solutions that meet and exceed project goals. Adept at communicating complex technical concepts to non-technical stakeholders, ensuring alignment and understanding. Passionate about solving intricate problems while fostering a culture of collaboration and continuous improvement.

## EXPERIENCE

### Data Workflow Engineer

January 2022 - Present

TechFlow Solutions

Chicago, IL

Focused on designing and implementing data workflows that improve processing speed for research projects. Collaborated with scientists to understand their needs, resulting in custom AI solutions tailored to various challenges. Responsible for maintaining existing workflows, ensuring data quality and accessibility.

- Designed and implemented data workflows improving processing speed by 30%.
- Collaborated with research scientists to identify nuanced requirements.
- Developed AI-enabled solutions tailored to specific research challenges.
- Maintained and optimized existing workflows to ensure efficient data availability.

### Software Development Engineer

June 2019 - December 2021

InnoTech Labs

Evanston, IL

Developed software applications integrating AI and machine learning algorithms dedicated to automating data analysis processes. Worked closely with project managers and contributed to defining project scope effectively.

- Produced multiple software applications for AI and ML integration.
- Worked closely with project managers to define project needs.
- Led junior developers, sharing best practices for enhanced productivity.
- Automated data analysis, significantly reducing manual input requirements.

### Graduate Research Assistant

August 2016 - May 2019

University of Illinois

Champaign, IL

Contributed to the development of AI models essential for advanced data analysis as part of an academic research initiative. Assessed model performance through rigorous experimentation and validation.

- Assisted in developing AI models for enhanced data analysis capabilities.
- Conducted experiments validating model accuracy and effectiveness.
- Presented research findings at various academic conferences.
- Collaborated with faculty to refine procedures and methodologies.

## LEADERSHIP & AWARDS

- Recipient of the TechInnovator Award for outstanding contributions in AI project development.
- Recognized as Top Employee for teamwork and innovative solutions at TechFlow Solutions.

## EDUCATION

### Master's Degree in Computer Science

2020

University of Illinois GPA: 3.8

Champaign, IL

**Coursework:** AI Algorithms, Data Structures, Machine Learning, Database Systems

## CERTIFICATIONS

- Certified AI Specialist 📅 2021
- AWS Certified Solutions Architect 📅 2022

## TECHNICAL SKILLS

- **Workflow Management Tools:** JIRA, Trello, Asana
- **Data Processing Frameworks:** Apache Spark, Hadoop, Apache Flink
- **Programming Languages:** Python, Java, C++

- **Database Technologies:** SQL Server, MongoDB, PostgreSQL
- **Machine Learning Tools:** TensorFlow, PyTorch, Scikit-learn
- **Cloud Platforms:** AWS, Azure, Google Cloud
- **Version Control Systems:** Git, SVN, Mercurial
- **AI Frameworks:** LangGraph, Dify, ONNX
- **Communication Tools:** Slack, Zoom, Microsoft Teams
- **DevOps Tools:** Docker, Kubernetes, Jenkins

**SKILLS**

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- AI Integration
- Software Development
- Data Workflow Optimization
- Communication
- Project Management
- Problem Solving
- Machine Learning
- Team Collaboration
- Research Analytics
- Programming
- Agile Methodologies
- Cloud Services
- Database Management
- System Architecture
- Requirements Analysis
- Quality Assurance

**PROFESSIONAL AFFILIATIONS**

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- Active Member of the Society for Artificial Intelligence Professionals.
- Volunteer Mentor at Code.org promoting computer science education.

**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