

# Silas McCormick

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## SUMMARY

Ambitious and results-driven Senior MLOps Engineer with a solid background in designing and deploying machine learning solutions. Over five years spent excelling at shaping AI workflows, especially on Databricks and Azure Machine Learning. Adept at coding in Python, I thrive on collaborating with data scientists to deliver top-tier ML applications. A steady commitment to continuous improvement drives success in every project undertaken. Sharing knowledge and fostering team collaboration are key goals going forward, ensuring that advanced tools and technologies are wielded effectively to optimize business impact.

## EXPERIENCE

### Senior MLOps Engineer

January 2021 - Present

Data Solutions Group

*Naperville, IL*

Promote effective model deployment through strong collaborations with data scientists and analytics teams. Focus on operational efficiency using key platforms while integrating machine learning principles across multiple domains.

- Design and maintain Databricks notebooks for data transformation and analytics, improving workflow significantly.
- Implement CI/CD practices via Azure DevOps for streamlined management of machine learning infrastructure.
- Analyze and visualize data outcomes using SQL and built-in tools, leading to strategic business insights.
- Support cross-functional communication by translating complex technical requirements into actionable project plans.

### MLOps Engineer

May 2018 - December 2020

AI Development Corp.

*Aurora, IL*

Fostered robust AI initiatives by developing and integrating tailored machine learning models that significantly elevated predictive accuracy. Actively managed external model governance to ensure compliance.

- Created and integrated custom machine learning algorithms to enhance user interactions with client-focused applications.
- Managed external AI model configurations within Databricks, ensuring secured API protocols and adherence to governance standards.
- Developed asynchronous agents using best practices in Python for improved workload concurrency and processing times.
- Collaborated with diverse teams to advance technical documentation and training materials for future development.

### Junior Data Engineer

June 2016 - April 2018

Tech Solutions LLC

*Wheaton, IL*

Supported back-end systems to facilitate real-time data processing in alignment with evolving machine learning projects. Diligently assisted the data science team throughout various modeling phases.

- Contributed to the design and execution of efficient data pipelines and ETL processes guiding several key projects.
- Assisted in preparing datasets for model training and validation, which resulted in notable improvements in prediction accuracy.
- Maintained accurate records in systems to support data integrity and compliant monitoring frameworks.
- Enhanced team productivity by identifying bottlenecks and suggesting tangible process improvements.

## PROJECTS

### Scalable Model Deployment Project 📅 December 2022

Led a high-impact initiative focused on scalable model deployment to bridge environments and production seamlessly, utilizing Docker containers and Kubernetes orchestration.

### Integrative ML Workflow Automation 📅 March 2023

Implemented an end-to-end automation solution combining multiple machine learning models with DevOps principles, producing consistently timely results for stakeholder review.

## LEADERSHIP & AWARDS

- Databricks Innovation Award for Best Model Deployment 2022
- Employee of the Month - AI Development Corp, November 2019

## EDUCATION

### Bachelor's Degree in Computer Science

2016

University of Illinois GPA: 3.5

*Champaign, IL*

**Coursework:** Data Structures, Algorithms, Machine Learning, Database Management

## CERTIFICATIONS

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- Certified Azure Data Scientist Associate 📅 2021
- Databricks Certified Data Engineer Associate 📅 2021

## TECHNICAL SKILLS

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- **Programming Languages:** Python
- **Database Skills:** SQL
- **Machine Learning Platforms:** Databricks
- **Cloud Technologies:** Azure
- **CI/CD Methodologies:** Azure DevOps
- **ML Libraries:** TensorFlow, PyTorch
- **Technical Documentation:** Markdown
- **Containerization:** Docker
- **Orchestration Tools:** Kubernetes
- **Serverless Frameworks:** Azure Functions

## SKILLS

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- Python
- TensorFlow
- DevOps
- Git
- SQL
- PyTorch
- Data Analysis
- Kubernetes
- Azure Machine Learning
- MLflow
- Data Transformation
- Asynchronous Programming
- Databricks
- CI/CD
- Model Integration
- Visualization Tools

## PROFESSIONAL AFFILIATIONS

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- Active member of the Chicago Machine Learning Community contributing to discussions and workshops.
- Volunteer mentor for local coding boot camps, assisting budding engineers in basic programming.

## 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