

# Silas McCormick

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## SUMMARY

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Results-driven AI/ML Solutions Architect experienced in software engineering and data science. Expertise in AI/ML architecture roles covering Generative AI and machine learning solutions design. Proven ability to lead cross-functional teams, drive innovative AI technologies adoption, and optimize performance through end-to-end architectures. Former roles showcase hands-on involvement with Python and relevant frameworks and crafting efficient models aligned with organizational goals. Showcased talent extends to MLOps practices, ensuring successful model deployments and continuous improvement in AI system designs, ultimately contributing to the bigger picture of product transformation.

## EXPERIENCE

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**AI/ML Solutions Architect** January 2018 - Present  
Innovative Tech Solutions *Ann Arbor, MI*

Oversaw client projects as AI/ML Solutions Architect, defining strategies for AI/ML implementation. Orchestrated complete AI solution designs employing advancements in Generative AI and traditional models.

- Implemented AI/ML architecture strategies across multiple projects, yielding significant operational enhancements.
- Led end-to-end design for AI solutions with a focus on seamless user experiences.
- Collaborated with data science teams to establish best practices enhancing model accuracy.
- Integrated new AI technologies improving efficiency and capability of existing systems.

**Senior Data Engineer** March 2014 - December 2017  
NextGen Data Systems *Lansing, MI*

Served as Senior Data Engineer focused on data pipelines development and deployment of machine learning models in production environments. Managed cloud infrastructure with sensitivity toward compliance standards.

- Developed scalable ETL solutions effective for real-time processing.
- Teamed up with data scientists ensuring robust deployment of machine learning models.
- Oversaw maintenance and optimization of cloud resources ensuring high reliability.
- Contributed rigorously towards governance protocols safeguarding AI project execution.

**Software Engineer** June 2011 - February 2014  
Tech Innovations LLC *Grand Rapids, MI*

Initiated career within Tech Innovations as Software Engineer, focusing on software solutions that amplified data processing capabilities and contributed heavily to tool development for analysis.

- Designed software applications streamlining data processing workflows effectively.
- Processed contributions toward central internal tooling assisting continued market alignment.
- Acted on cross-functional teams providing timely results through collaborative efforts.
- Observed strong project timelines and maintained dual-focus on quality alongside deliverables.

## LEADERSHIP & AWARDS

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- Recognized as Top Data Innovator by the Michigan Tech Association in 2020.
- Awarded Employee of the Year at Innovative Tech Solutions for outstanding project leadership.

## EDUCATION

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**Bachelor's Degree in Computer Science** 2011  
University of Michigan GPA: 3.7 *Ann Arbor, MI*  
**Coursework:** *Data Structures, Algorithms, Machine Learning, Software Engineering*

## CERTIFICATIONS

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- Certified AI Solutions Architect 📅 2023
- AWS Certified Machine Learning – Specialty 📅 2022

## TECHNICAL SKILLS

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- **Programming Languages:** Python, Java, C++
- **Frameworks:** TensorFlow, PyTorch, Scikit-learn
- **Cloud Services:** AWS, Azure, Google Cloud
- **Database Technologies:** MySQL, PostgreSQL, MongoDB
- **DevOps Tools:** Docker, Kubernetes, Jenkins
- **Data Visualization:** Tableau, Power BI, Matplotlib
- **API Development:** RESTful, GraphQL
- **Performance Monitoring:** Prometheus, Grafana, ELK Stack
- **Version Control:** Git, GitHub, Bitbucket
- **System Design:** Microservices, Monolithic architectures, Event-driven architectures

## SKILLS

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- AI/ML Architecture
- Data Engineering
- Scikit-learn
- Project Management
- Generative AI
- MLOps
- Machine Learning
- Data Processing
- Python
- ETL Pipelines
- Strategic Planning
- Real-Time Analytics
- TensorFlow
- Cloud Platforms
- Collaboration
- AI Innovation

## PROFESSIONAL AFFILIATIONS

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- Member of the Michigan Institute of Technology Professionals since 2019.
- Active contributor to the AI Ethics Consortium from 2022.

## 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