

# Tucker Macias

(217) 555-0123 tucker.macias@example.com linkedin.com/in/tuckermacias 1234 Elm Street, Springfield, IL 62704

## SUMMARY

Accomplished AI and ML Engineering Director with over 12 years in leading innovative tech projects. Proven success designing and deploying AI systems that streamline construction processes, enhancing efficiency and accuracy. Expert in large language models, computer vision, and machine learning strategies. A collaborative leader who builds strong partnerships across engineering and product teams to drive tech advancements. Passionate about mentoring cross-functional teams and delivering impactful AI-powered solutions tailored specifically to the residential construction industry.

## EXPERIENCE

### AI Engineering Director

January 2020 - Present

Tech Innovations Inc.

Chicago, IL

Lead strategic architecture for AI applications in residential construction, optimizing design and estimation processes.

- Spearhead initiatives that integrate AI technologies into core business workflows, driving significant improvements.
- Oversee a team crafting ML models and AI systems aligned with internal and industry standards.
- Collaborate with product lines to define actionable use cases that leverage AI for operational efficiencies.
- Facilitate relationships between stakeholders developing strategies that reflect evolving market conditions.

### Senior Software Engineer

June 2015 - December 2019

SmartBuild Corp.

Peoria, IL

Designed AI-driven solutions focused on workflow automation within construction projects, reducing costs and improving timelines.

- Developed computer vision pipelines that streamlined plan interpretation, enhancing delivery speeds.
- Implemented machine learning frameworks that significantly decreased manual tasks in project execution.
- Fostered cross-team collaboration ensuring alignment with customer expectations and streamlining deliverables.
- Led the integration of feedback loops established from performance metrics to refine existing tools for better outcomes.

### Software Engineer

August 2012 - May 2015

NextGen Technologies

Champaign, IL

Contributed to the development of algorithms aimed at predictive maintenance within construction equipment ecosystems.

- Engaged actively in building practices oriented towards superior data management and deployment standards.
- Worked alongside interdisciplinary teams bolstering user experiences by co-designing functional AI tools.
- Participated in evaluation methods focused on the enhancement of model performance and reliability.
- Generated detailed reports interpreting data trends supporting informed decision-making processes.

## LEADERSHIP & AWARDS

- Received 'Innovation in AI Award' for introducing transformative AI applications in urban construction projects.
- Awarded 'Tech Leadership Recognition' for exceptional mentoring and development of engineering talents.

## EDUCATION

### Master's Degree in Computer Science

2012

University of Illinois GPA: 3.8

Champaign, IL

*Coursework: Machine Learning, AI Systems, Software Engineering, Data Structures*

## CERTIFICATIONS

- Certified Machine Learning Professional (CMLP) 2019
- AWS Certified Machine Learning – Specialty 2021

## TECHNICAL SKILLS

- **Machine Learning Tools:** MLflow, Kubeflow, SageMaker
- **Version Control Systems:** Git, GitHub, Bitbucket
- **Programming Languages:** Python, JavaScript, C++
- **Containerization Technologies:** Docker, Kubernetes, OpenShift
- **Data Frameworks:** Apache Spark, Pandas, NumPy
- **Web Development Frameworks:** Flask, Django, Node.js

- **Cloud Services:** AWS, Azure, Google Cloud
- **Deployment Frameworks:** Terraform, Ansible, Jenkins
- **Monitoring Tools:** Prometheus, Grafana, New Relic
- **Database Technologies:** MySQL, MongoDB, PostgreSQL

**SKILLS**

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- Artificial Intelligence
- Machine Learning
- Software Engineering
- Computer Vision
- Data Management
- Project Management
- APIs
- Microservices
- Cloud Platforms
- CI/CD
- Containerization
- Quantitative Methods
- Agile Methodologies
- Performance Monitoring
- Model Deployment
- User Experience Design

**PROFESSIONAL AFFILIATIONS**

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- Active member of the Association for Computing Machinery (ACM) focusing on AI innovations.
- Contributing member of the Constructive Technology Forum to support future construction methodologies.

**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