

# Oscar Yates

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## SUMMARY

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Innovative AI engineer with over 9 years of experience in applied machine learning, specializing in developing and deploying multimodal perception systems. Proven ability enhances model performance and reliability in real-world applications while optimizing for safety and efficiency. Expertise lies in optimizing AI models for edge devices and cloud infrastructure, complemented by a strong background in computer vision and real-time data processing. Passionate about mentoring junior engineers, fostering teamwork, and driving technological advancements in safety-critical applications. Eager to contribute skills and make meaningful improvements.

## EXPERIENCE

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### Senior AI Engineer

March 2018 - Present

Visionary Tech Solutions

*Dallas, TX*

Lead efforts in developing and deploying advanced AI models for real-time video analysis and safety applications, ensuring model performance in critical environments.

- Develop production-grade multimodal models focused on visual and video perception.
- Collaborate with cross-functional teams to improve model reliability and performance.
- Optimize machine learning pipelines targeted at edge devices for efficient deployment.
- Monitored ongoing performance and made iterative enhancements based on real-world feedback.

### Mid-Level Machine Learning Engineer

January 2015 - February 2018

Innovative Systems Inc.

*Austin, TX*

Conducted development and monitoring of machine learning models for image recognition, emphasizing practical applicability within various constraints.

- Created and fine-tuned machine learning models for accurate assessment in real-world scenarios.
- Worked alongside teams to evaluate model performance against standard industry benchmarks.
- Facilitated successful model deployments despite resource limitations in clients' environment.
- Supported ongoing evaluation processes to maintain high accuracy and reduce discrepancies.

### Junior Data Scientist

June 2013 - December 2014

Tech Forward Group

*San Francisco, CA*

Assisted with data processing pipelines for machine learning tasks, gaining foundational insights into the deployment phase of AI initiatives.

- Contributed to data pipeline designs, helping streamline the transition to machine learning applications.
- Worked with senior colleagues to analyze diverse datasets, significantly enhancing outcomes.
- Participated in initial prototype development, laying groundwork for subsequent projects.
- Accumulated experience in real-world deployments, reinforcing theoretical knowledge with practical application.

## LEADERSHIP & AWARDS

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- Recognized as Innovator of the Year by Visionary Tech Solutions for groundbreaking work on AI safety systems.
- Led team awarded Best Technical Achievement during company-wide tech fair for an AI deployment project.

## EDUCATION

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### Master's Degree in Computer Science

2013

University of Illinois GPA: 3.9

*Champaign, IL*

**Coursework:** Data Structures, Machine Learning, AI Algorithms, Project Management

## CERTIFICATIONS

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- Certified TensorFlow Developer 📅 2020
- AWS Certified Machine Learning – Specialty 📅 2021

## TECHNICAL SKILLS

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- **Programming Languages:** Python, C++, Java
- **ML Frameworks:** TensorFlow, PyTorch, Scikit-learn
- **Deployment Tools:** Docker, Kubernetes, AWS
- **Database Technologies:** PostgreSQL, MongoDB, MySQL

- **Monitoring Platforms:** Prometheus, Grafana, ELK Stack
- **Testing Frameworks:** JUnit, pytest, Robot Framework
- **Visualization Tools:** Matplotlib, Seaborn, Tableau
- **Cloud Services:** AWS, GCP, Microsoft Azure
- **Version Control:** Git, SVN, Mercurial
- **Collaboration Tools:** Slack, Jira, Trello

**SKILLS**

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- Machine Learning
- Model Optimization
- Edge Computing
- Production Deployment
- Python
- Data Analysis
- Model Evaluation
- Dataset Management
- PyTorch
- Real-time Processing
- Safety Applications
- Performance Tuning
- Computer Vision
- Cloud Deployment
- Deep Learning
- Technical Leadership

**PROFESSIONAL AFFILIATIONS**

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- Member of the IEEE Robotics and Automation Society, collaborating on innovative projects.
- Active participant in the AI & ML Developers Network, contributing thought leadership and expertise.

**LANGUAGES**

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- English (Native)
- Spanish (Proficient)

**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