

# Leo Singleton

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## SUMMARY

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Results-driven AI Research Engineer with over 7 years of experience in applied machine learning and deep learning technologies. Proven expertise in transforming complex business problems into effective ML solutions and driving impactful AI projects from conception to deployment. Strong background in Python programming, TensorFlow, and PyTorch empowers ability to deliver cutting-edge solutions. Commitment to collaboration shines through cross-functional teamwork aimed at achieving shared goals. Eager to contribute innovative ideas while keeping abreast of AI advancements, ensuring alignment between research and practical application.

## EXPERIENCE

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### Senior AI Engineer

January 2021 - Present

Innovative AI Solutions

*Naperville, IL*

Lead design and implementation of production-quality machine learning models for various applications, significantly boosting operational efficiency and model fidelity.

- Engineered robust machine learning systems that improved user engagement by tailoring experiences to distinct audience segments.
- Collaborated extensively with UX teams to translate technical requirements into actionable feature developments, strengthening user satisfaction.
- Conducted evaluation of models under various scenarios and continuously optimized algorithm performance across multiple parameters.

### AI Engineer

March 2018 - December 2020

Future Tech Labs

*Chicago, IL*

Focused on developing and deploying scalable deep learning models, realizing substantial improvements across natural language processing applications.

- Took lead on team initiatives to share insights about emerging trends in AI and encourage best practice implementations.
- Mentored upcoming engineers, promoting a culture of innovation and adherence to ethical AI practices in every project.
- Coded algorithms resulting in higher accuracy rates leading to client recognition for project excellence.

### Machine Learning Engineer

June 2016 - February 2018

Data Insights Corp

*Bloomington, IL*

Contributed to the development of tailored machine learning algorithms, enhancing client services through meaningful personalized recommendations.

- Facilitated open-source contributions within the AI ecosystem which helped strengthen the organization's technical profile.
- Engaged cross-functional groups to identifying opportunities for improving data flow and quality for better analytical outcomes.
- Collaborated on joint research efforts showcasing promising new methodologies that attracted industry attention.

## LEADERSHIP & AWARDS

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- Received 'Innovation Award' for best AML practices at Innovative AI Solutions in 2022.
- Recognized as 'Best Mentor' during tenure at Future Tech Labs in 2020.

## EDUCATION

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### Master's Degree in Computer Science

2016

University of Illinois GPA: 3.9

*Champaign, IL*

**Coursework:** *Advanced Machine Learning, Deep Learning, Data Structures, Algorithms*

## CERTIFICATIONS

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- Certified TensorFlow Developer 📅 2021
- AWS Certified Machine Learning – Specialty 📅 2022

## TECHNICAL SKILLS

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- **Programming Languages:** Python, Java, C++
- **Data Visualization Tools:** Tableau, Power BI, Matplotlib
- **Deployment Platforms:** Docker, Kubernetes, AWS
- **Frameworks:** TensorFlow, Keras, PyTorch
- **Version Control Systems:** Git, SVN, Bitbucket

- **Database Management:** SQL, MongoDB, NoSQL
- **API Design:** RESTful APIs, GraphQL
- **Testing Frameworks:** JUnit, PyTest, Selenium
- **Cloud Services:** AWS, Google Cloud Platform, Azure
- **Data Processing Frameworks:** Pandas, NumPy, Spark

**SKILLS**

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- Machine Learning
- TensorFlow
- Deep Learning
- Model Optimization
- Python
- AI Ethics and Responsible Deployment
- PyTorch
- Natural Language Processing
- Data Analysis Techniques
- Collaboration Skills
- Statistical Methods
- Cloud Technologies
- Model Evaluation
- Algorithm Development
- Predictive Modeling
- Visualization Tools

**PROFESSIONAL AFFILIATIONS**

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- Active member of the Association for Computing Machinery, connecting with fellow professionals for knowledge sharing.
- Member of the IEEE Computational Intelligence Society focusing on cloud-based machine learning 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