

# Thao Walton

## MLOps Engineer

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### SUMMARY

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Driven MLOps Engineer thriving in dynamic environments. Over five years optimizing AI/ML systems, delivering on deployment excellence. Developed and operationalized scalable models using tools like Python, Docker, and Kubernetes for seamless performance. Committed to security best practices while pursuing innovative data solutions. Passionate about automating ML pipelines and ensuring high governance standards across environments. Eager to leverage experience in end-to-end model delivery at a forward-thinking organization, impacting team efficiency and client success positively.

### EXPERIENCE

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#### MLOps Engineer

CloudSolutions Corp 📅 January 2022 - Present 📍 Evanston, IL

Focused on building and optimizing scalable ML pipelines that drive data ingestion and deployment efficiencies. Collaborated with diverse teams to uphold responsible AI protocols, ensuring accuracy and safety within our processes. Engaged in enhancing observability through data quality monitoring, reinforcing operational rigor.

- Developed automated and efficient ML workflows guiding projects from inception to launch.
- Established CI/CD frameworks for diverse models, allowing streamlined versioning and testing.
- Implemented robust observability measures, boosting system performance and reliability.
- Partnered with cross-functional teams fostering a collaborative environment around responsible AI.

#### Data Engineer

Data Innovations LLC 📅 June 2019 - December 2021 📍 Naperville, IL

Engineered reliable ETL processes leveraging Google Cloud technologies. Enhanced data availability and quality for effective analytics, significantly influencing several initiatives. Drove comprehensive training regarding security and governance best practices, enriching knowledge in the workforce as well as practices.

- Designed and executed ETL systems using Cloud Composer and Dataflow facilitating easy data usability.
- Supported seamless deployments of machine learning models aligned with established CI/CD workflows.
- Conducted informative sessions elevating team understanding on governance and security adherence.
- Enhanced analytical capabilities fostering effective decision-making within business units.

#### Junior Data Analyst

TechWave Solutions 📅 August 2018 - May 2019 📍 Aurora, IL

Assisted in information processing tasks while contributing to multiple machine learning projects aimed at improving predictive capacity. Compiled extensive documentation, aiding in transparency and knowledge sharing through articulately presented methodologies.

- Participated actively in data collection efforts providing timely support for various project needs.
- Engaged in preprocessing activities ensuring high accuracy in data destined for model training.
- Produced detailed documentation guiding users through established processes promoting lasting knowledge.
- Collaborated within team setting, receiving praise and recognition for contributions to common goals.

### LEADERSHIP & AWARDS

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- Certified Kubernetes Administrator (CKA)
- Google Cloud Professional Data Engineer

### EDUCATION

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#### Bachelor's Degree in Computer Science

University of Illinois 🎓 GPA: 3.8 📅 2018 📍 Champaign, IL

*Coursework: Data Structures, Algorithms, Machine Learning, Cloud Computing*

### CERTIFICATIONS

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- Certified Kubernetes Administrator (CKA) 📅 2020
- Google Cloud Professional Data Engineer 📅 2021

## TECHNICAL SKILLS

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- **Programming Languages::** Python, R, SQL
- **Containerization Tools::** Docker, Kubernetes
- **Cloud Platforms::** Google Cloud, AWS
- **Data Technologies::** BigQuery, Dataflow, Cloud Composer
- **Machine Learning Frameworks::** TensorFlow, Scikit-learn, PyTorch
- **CI/CD Tools::** Jenkins, GitLab CI/CD, GitHub Actions
- **Version Control Systems::** Git, Bitbucket
- **Monitoring Tools::** Prometheus, Grafana
- **Database Systems::** PostgreSQL, MongoDB
- **Other Technologies::** Vertex AI, Google Cloud Run

## SKILLS

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- Python
- Docker
- Kubernetes
- CI/CD
- ML pipelines
- Data governance
- observability
- Google Cloud Platform
- BigQuery
- Security protocols
- PII management

## PROFESSIONAL AFFILIATIONS

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- Member of Cloud Engineers Network
- Contributor at ML Hub Community

## 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