

# Nylah Campos

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## SUMMARY

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Results-driven Machine Learning Operations Engineer with over 4 years in deploying and managing large language models (LLMs) on AWS. Specialized in building robust MLOps infrastructures while implementing best practices for monitoring model performance and optimization. Developed CI/CD pipelines ensuring efficient LLM deployment, addressing model size and versioning effectively. Skilled in Python, with hands-on experience utilizing AWS services like SageMaker and EC2. Eager to contribute innovative solutions and enhance existing workflows through continuous improvement strategies. Striving for excellence in collaboration, delivering quality results across projects.

## EXPERIENCE

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### Machine Learning Operations Engineer

January 2023 - Present

CloudTech Solutions

Chicago, IL

Focused on designing and implementing MLOps infrastructure tailored for LLMs using AWS services including SageMaker and EC2. Proactively developed CI/CD pipelines aimed at achieving high availability and operational efficiency for LLM deployments. Collaborated closely with cross-functional teams integrating LLMs into production systems while managing resource allocations judiciously.

- Executed design and implementation of MLOps infrastructure locating optimal solutions using AWS.
- Orchestrated development of CI/CD pipelines facilitating seamless LLM integration into existing frameworks.
- Ensured cost-effective operations while improving system performance through collaborative strategies.
- Streamlined monitoring processes enhancing the observability of deployed models.

### Junior Machine Learning Engineer

June 2021 - December 2022

DataSmart Analytics

Peoria, IL

Contributed to the development of machine learning models while helping establish MLOps strategies for diverse client projects. Engaged in performance monitoring of implemented models aimed at increasing efficiency and effectiveness.

- Supported development processes for machine learning models optimizing project outcomes.
- Monitored and refined performance metrics ensuring sustained operational efficiency in client deliverables.
- Played a key role in RESTful API development exposing advanced ML capabilities for user applications.
- Facilitated team collaboration fostering alignment on project goals and delivery timelines.

### Machine Learning Intern

January 2021 - May 2021

Innovate AI Labs

Champaign, IL

Assisted with research projects focused on developing LLM application frameworks. Involved in data preprocessing steps necessary for effective training methodologies in machine learning.

- Contributed actively to LLM projects assisting with model preparation and data handling.
- Created documentation outlining machine learning processes enhancing knowledge transfer within teams.
- Participated in brainstorming sessions generating ideas to further improve project outcomes.
- Developed individual understanding of model performance needs leading to productive feedback loops.

## LEADERSHIP & AWARDS

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- AWS Certified Machine Learning – Specialty
- Certified Kubernetes Administrator (CKA)

## EDUCATION

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### Bachelor's Degree in Computer Science

2021

University of Illinois GPA: 3.8

Champaign, IL

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

## CERTIFICATIONS

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- AWS Certified Machine Learning – Specialty 📅 2021
- Certified Kubernetes Administrator (CKA) 📅 2021

## TECHNICAL SKILLS

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- **Cloud Platforms:** AWS, Azure, Google Cloud

- **Programming Languages:** Python, Java, R
- **DevOps Tools:** Docker, Jenkins, Git
- **Monitoring Systems:** CloudWatch, Prometheus, Grafana
- **API Development:** Flask, FastAPI, Django
- **Data Processing:** Pandas, NumPy, TensorFlow
- **Deployment Tools:** Kubernetes, ECS
- **Testing Frameworks:** pytest, unittest
- **Version Control Systems:** GitHub, GitLab
- **Infrastructure as Code:** Terraform, CloudFormation

**SKILLS**

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- AWS Services (SageMaker, EC2, S3)
- Python Programming
- MLOps Best Practices
- Containerization (Docker, Kubernetes)
- RESTful API Development
- CI/CD Pipelines
- Monitoring Tools (Prometheus, Grafana)
- Model Optimization Techniques
- Security Best Practices
- Data Engineering Principles
- Version Control (Git)
- Troubleshooting Skills
- Performance Monitoring Tools
- Scalability Strategies
- Script Automation

**PROFESSIONAL AFFILIATIONS**

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- Member of IEEE
- Active Participant in Women in Tech

**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