



# Nylah Campos

## Machine Learning Operations Engineer

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### SUMMARY

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

#### Machine Learning Operations Engineer

CloudTech Solutions 📅 January 2023 - Present 📍 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

DataSmart Analytics 📅 June 2021 - December 2022 📍 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

Innovate AI Labs 📅 January 2021 - May 2021 📍 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

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

### STRENGTHS

#### 👤 Leadership

Led project initiatives, often becoming a trusted advisor. Team members relied on guidance during critical phases.

#### 📊 Analytical Skills

Provided insightful analyses affecting strategic decisions, often praised for problem-solving insights.

#### 🤝 Collaboration

Fostered relationships across departments leading to successful integrations and shared objectives. Colleagues appreciated approachable nature.

#### 🛠️ Technical Acumen

Exemplified adeptness in coordinating various tech stacks. Empowered teams by proposing suitable technology options.

#### 🗣️ Communication

Cultivated clear channels of communication. Stakeholders recognized ability to articulate complex issues simply and effectively.

### SKILLS

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

## LANGUAGES

English Native

Spanish Proficient

## MY CAREER



● Machine Learning  
Operations Engineer at  
CloudTech Solutions (3.4 Years)

● Junior Machine Learning  
Engineer at DataSmart Analytics  
(1.5 Years)

● Machine Learning Intern at  
Innovate AI Labs (4 Months)

## EDUCATION

### Bachelor's Degree in Computer Science

University of Illinois 🎓 GPA: 3.8 📅 2021 📍 Champaign, IL

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

## CERTIFICATIONS

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

## TECHNICAL SKILLS

- **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

## PROFESSIONAL AFFILIATIONS

- Member of IEEE
- Active Participant in Women in Tech

## ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

AVAILABLE ON REQUEST