

Matthew I Cintron - Principal ML Engineer

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Professional Summary

- 13 years of experience working in Data Science, Dev Ops and Bioinformatics
- 11 years of experience engineering AI/ML solutions at scale
- 10 years of experience training deploying and managing full stack integrated machine learning models/projects, leveraging the AWS ecosystem in production.

Work History

Principal ML Engineer – Vitality Robotics

Durham NC (08/2023 - Present)

- Lead Developer for ML Hub Operations Network: a Gen AI operations center to deploy lambda architecture running targeted AI/ML models and manage their training with CI/CD .
- Lead for a team of 4 engineers also serving as scrum master while architecting machine learning pipelines running on AWS SageMaker/EC2 for computer vision, and NLP data across multiple projects.
- Architected and Built a CI/CD pipeline using Github Actions including Black, Unit/integration tests & deployment of Labtools.AI web application running image based GAN's models for Merck.
- Designed and built server-less web application using AWS Route53, Cloudfront, Lambda, Cognito and DynamoDB to run custom dashboards for scientists on Labtools.AI

Senior AI ML Specialist / Lead Data Engineer – Verana Health

NY (06/2021 - 08/2023)

- Lead Developer for NEMA: Developed an NLP-based AIML application to identify non-explicit metastasis in patient notes.
- Project Leader for Key Matcher: Designed a high-level NLP framework to extract key information from large datasets and build comprehensive data profiles.
- Project Leader for POAM: API platform to classify and predict medical outcomes
- Lead Developer on LLM ICL Integration: Integrated LLMs for in-context learning on medical datasets.

Lead AI ML Specialist and Software Engineer – Maximus / Attain LLC - on DHS Contract

Reston VA (09/2019 - 06/2021)

- Project Leader for ODIN: Developed an AI service for OCR-based form and personal identification data extraction.
- Tech Lead for ARGOS: Built a data extraction application for mapping company risk using NLP-based classification.
- Project Leader for AI-PA: Implemented computer vision models for facial authentication in ID photo recognition.
- Project Leader for SPHINX: Created a dockerized AI Q/A chatbot with advanced NLP for versatile service needs.

Data Scientist, Software Engineer / AI Developer – Bristol Myers Squibb (BMS)

Princeton NJ (04/2014 - 09/ 2019)

- Developed software databases and visual tools for lab samples, Mass Spec, and NMR data.
- Built 3D graphics tools for PCA data plotting.
- Created Alexa skills and a voice-interactive AI assistant for lab scientists.
- Designed Excel add-ins for data processing in Investigative Metabolomics.
- Built the front and back end for the Bioinformatics team website and various online databases for early-stage drug development.

Education

BA - Fine Arts - 2011

MS - Digital Media Tech - 2013

Technical Skills

Software:

JIRA, Terraform, Docker, Visual Studio, Pycharm, React, Amazon Alexa, Amazon AWS(Sagemaker / Sagemaker Studio, EC2, ECS, S3), MS Cognitive Services, Conda, Google Cloud, Unity, OCR, Open CV, Jupyter, Google Colab, AWS Lambda, Amazon S3 (Simple Storage Service), Amazon EC2 (Elastic Compute Cloud), Amazon RDS (Relational Database Service), Amazon DynamoDB, Amazon SNS (Simple Notification Service), Amazon SQS (Simple Queue Service)

Programming Languages:

Python, C#, C++, Java, JavaScript, SQL, html5, **Frameworks:** .NET, ASP.NET, Flask, Django, Tensorflow, Keras, Scikit learn, H2O FastAPI, Databricks, **LLM: - Services** – Open AI (Chat GPT, GPT4), Auto GPT, Agent GPT, **Open source** – GPT-Neo, LLAMA, Alpaca, Open LLM

Certifications / Gov - SC

AWS Cloud Practitioner
AWS Solutions Architect Associate

AWS Partner: Technical Accreditation
AWS Partner: Sales Accreditation
AWS Partner: Cloud Economics Essentials

US Gov Security Clearance - Public Trust