

Matthew I Cintron

Cell: 609 651 2153 Email: matt_cintron@yahoo.com

LinkedIn: <https://www.linkedin.com/mc>

Github: <https://github.com/mattcintron>

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 / Lead Software Engineer –

Vitality Robotics Durham NC (10/2023 - Present)

- Lead Developer for ML Hub Operations Network: a GenAI operations center to deploy front facing web architecture running API endpoints to LLM models connected with client data, full monitored to avoid drift with CI/CD., AWS, Lambda, Flask, LLM, RAG
- Lead for a team of 4 engineers, while architecting LLM machine learning pipelines running on AWS SageMaker/EC2 for computer vision, and NLP data across multiple projects., AWS, GPT, Claude,
- Architected and Built a CI/CD pipeline using Github Actions including Black, Unit/integration tests & deployment of web application running image based models for Merck., Flask, AWS, Lambda, GANS, DynamoDB, AWS Nova
- Designed the entire Full Stack for server-less web application to run custom dashboards for scientists at VR called Labtools.AI. using AWS Route53, Cloudfront, Lambda, Cognito and DynamoDB
- Built Image Processing RAG pipeline using multiple LLMs to identify chemical data in label images then compare and classify across internal client databases, GPT, Claude, DynamoDB, AWS Bedrock

Senior AI ML Specialist / Lead Data Engineer –

Verana Health NY (09/2022 - 10/2023)

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

Lead AI ML Specialist / Software Engineer –

Maximus / Attain LLC - on DHS Contract Reston VA (05/2020 - 09/2022)

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

Data Scientist, Software Engineer / AI Developer –

Bristol Myers Squibb (BMS) (09/2013 - 05/ 2020)

- Developed software databases and visual tools for lab samples, Mass Spec, and NMR data. AWS
- 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.
- Full Stack Engining - ASP.NET, Flask, Django, Built the front and back end for the Bioinformatics team website and various online databases for early-stage drug development.

Education

Rider- BA - Fine Arts - 2011

LIU - 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) Teraform, Kubernetes

Programming Languages:

Python, C#, C++, Java, Java Script , 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, RAG Pipelines

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