

## Andres Bryant Mejia

Principal Software Engineer | Solutions Architect

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[Portfolio](#) | [Github](#) | [Linkedin](#)

### Professional Profile

Hands-on Principal Engineer and Solutions Architect with 6+ years of experience specializing in the transformation of complex enterprise ecosystems into reusable, service-based platforms. Proven track record in service rationalization, domain-driven design (DDD), and implementing legacy modernization strategies (Strangler Pattern) across distributed global environments. Expert in building scalable, AI-ready architectures that bridge the gap between monolithic legacy systems and future-ready agentic frameworks.

### Professional Experience

#### Independent AI Software Engineer – Research & Consulting

San Francisco, CA | Dec 2024 – Apr 2026

*Python, LLMs, RAG, LangGraph, AWS, GCP, Vector Databases, Agentic Systems*

- **Modernized 30+ microservices systems** for enterprise clients by revising architectures and configurations for cloud-native deployment environments, ensuring seamless transition with zero business disruption.
- **Architected production-ready APIs** for early-stage startups capable of scaling to high-throughput workloads of 10k+ concurrent users.
- **Engineered "Report Agent,"** an autonomous deep research tool that reduces multi-document analysis timelines from hours to sub-minute resolutions using RAG pipelines and LLM orchestration.
- **Designed deterministic multi-agent workflows** using LangGraph to execute autonomous knowledge retrieval and reasoning over extensive (100k+ token) document corpora.
- **Formalized production-grade MLOps standards,** earning the AWS Machine Learning Engineer Associate certification (July 2025).

#### Senior Software Engineer – Platform & AI Integration

Gras, Inc, New York, NY | Feb 2023 – Dec 2024

*Python, Flask, FastAPI, Node.js, React, PostgreSQL, GCP, Kubernetes, Terraform, RabbitMQ*

- **Built agentic workflows** using function calling to interface with enterprise systems, automating data extraction with sub-300ms latency.
- **Increased operational efficiency by 40%** through the deployment of custom LLM-based automation and data extraction tools.
- **Decomposed fragmented application-centric systems** into reusable domain services, reducing service duplication across the ecosystem and aligning technical boundaries with business capabilities.

#### Senior Software Engineer – Cloud & Data Platforms

Capgemini USA, Remote | Mar 2021 – Feb 2023

*AWS, Terraform, Python, Node.js, Kafka, Spark, Docker, Kubernetes*

- **Led a mixed global team of 12 offshore and domestic engineers,** establishing engineering standards and driving the adoption of reuse-first architectural patterns.
- **Managed complex system landscapes** in a distributed enterprise environment, scaling AWS infrastructure via Terraform and EKS to decrease deployment time by 50%.
- **Established comprehensive observability stacks** (Prometheus, ELK) with defined SLOs, reducing production incidents by 30% through improved system visibility.
- **Designed multi-region architectures** supporting SOC2-compliant transaction analytics without forcing consolidation across disparate business units.

## Featured Projects

### **Report Agent – AI Deep Research Assistant** (Feb 2025 - Present)

*Python, Langgraph, LangSmith, RAG, Google Gemini, Claude 3.5 Sonnet, LLM Observability*

**Built an AI-powered research assistant** that automates deep research and generates structured multi-section reports (10–20 sections) with 50+ cited sources per run.

[View Project](#)

### **GoCareerPath – Multi-Agent Career Research System** (Aug 2025)

*Python, LangChain, LangGraph, OpenAI APIs, RAG*

**Engineered a multi-agent system using LangGraph** to perform structured reasoning over labor market datasets and large document collections

[View Project](#)

## Technical Skills

- **Architectural Strategy:** Service Decomposition, Domain-Driven Design (DDD), Strangler Pattern, Service Catalog Design, Event-Driven Architecture (EDA).
- **Enterprise Leadership:** Cross-functional/Global Team Management (12+ engineers), Engineering Standards & Governance, Stakeholder Management.
- **Modernization:** Monolith-to-Microservices Migration (30+ systems), API-First Design (REST, GraphQL), Multi-region Scalability.
- **Founding Engineer Mindset:** Infrastructure-as-Code (Terraform), Rapid Prototyping, Product Ownership.
- **Backend Development:** Python (FastAPI/Flask), Node.js, Kafka, RabbitMQ, SQL, PostgreSQL, Redis, DynamoDB.
- **AI/ML:** Agentic Workflows (LangGraph), RAG, Prompt Engineering, LLM Observability (LangSmith).
- **DevOps & Cloud:** AWS (EKS, Lambda), GCP (Cloud Run, BigQuery), Azure, Docker, Kubernetes, CI/CD.
- **Observability & Monitoring:** Prometheus, Datadog, Grafana, OpenTelemetry, LangSmith, Logging, Metrics, Alerting

## Education

- **AWS Certified Machine Learning Engineer Associate** (July 2025)
- **Generative AI Fundamentals** | Databricks (2024)
- **Designing Big Data Analytics Solutions** | Great Learning (2024)
- **Associate Degree – Computer Science, Business Applications Development** | Harrisburg Area Community College, Harrisburg, PA (2020)
- **C Programming & Computer Science Boot Camp** | 42 Silicon Valley, Fremont, CA (2018)