

Andres Bryant

Senior Full Stack & AI Engineer

Cloud-Native Systems | Web Development | Scalable Automation & AI Solutions

San Francisco, CA | Bryantmejia722@outlook.com | Phone: 15707901185

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

Core Competencies

- Cloud-Native Systems & Infrastructure: Architected secure, scalable services on AWS and GCP, enabling resilient platforms that support business growth.
 - Kubernetes & Containers: Designed and managed containerized applications with Kubernetes (EKS/GKE) and Docker, driving efficient deployments and cost-optimized scaling.
 - Backend Engineering: 7+ years building RESTful APIs, WebSockets, and microservices in Python, Java, and Node.js, powering mission-critical applications.
 - CI/CD & Automation: Delivered automated pipelines with Jenkins, GitHub Actions, and Terraform, accelerating releases and embedding compliance checks.
 - Data Streaming & Messaging: Built high-throughput pipelines with Kafka, Spark, and RabbitMQ to support real-time analytics and decision-making.
 - AI-Driven Business Systems: Deployed production-grade AI/LLM solutions for compliance, auditing, chatbots, and workflow automation, improving efficiency and CX.
 - Security & Reliability: Implemented RBAC, IAM, and encryption; maintained high-availability environments with Prometheus, Datadog, and CloudWatch, reducing downtime and safeguarding data.
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Professional Experience

Senior Software Engineer

Gras, Inc - New York, NY

Feb 2023 - Dec 2024 | 50 hrs/week

Python, FastAPI, Node.js, PostgreSQL, GCP, Kubernetes, Terraform, CI/CD, RabbitMQ

- Deployed cloud-native microservices on Kubernetes (GKE) with Terraform automation and CI/CD pipelines.
- Designed scalable REST APIs and WebSocket services for compliance automation and customer communications.
- Integrated with Stripe, Twilio, and messaging platforms for secure financial workflows.
- Implemented real-time event-driven pipelines with RabbitMQ + async workers.
- Monitored system health with Prometheus + Datadog, improving uptime and reducing MTTR.
- Supported incident resolution by diagnosing complex distributed service failures in production.

Senior Software Engineer

Capgemini USA - Remote

Mar 2021 - Feb 2023 | 40 hrs/week

Java, Scala, Kafka, Spark, Go, AWS, Snowflake, Docker, Kubernetes, CI/CD

- Migrated 30+ enterprise systems to cloud-native microservices on AWS + Kubernetes (EKS), reducing costs by 20%.
- Developed Java/Scala-based streaming services (processing 1M+ events daily) for financial transactions.
- Automated ETL pipelines into Snowflake for financial data analytics.
- Built CI/CD workflows with Jenkins + GitHub for automated testing and deployments.
- Debugged distributed transaction flows across microservices, ensuring compliance and accuracy.
- Implemented monitoring and logging with Prometheus + ELK stack.

Software Engineer II

Nexient - Remote

Nov 2019 - Mar 2021 | 40 hrs/week

Java, Node.js, Python, React, AWS, Kubernetes, Jenkins, PostgreSQL

- Built secure backend APIs in Java + Node.js, integrating with React/Angular UIs.
- Designed WebSocket services for real-time financial interactions.
- Automated infrastructure and CI/CD with Jenkins + AWS Kubernetes (EKS).
- Ensured PCI DSS + SOC2 compliance via RBAC, IAM, and encryption.
- Enhanced customer experience portals with React and Angular frontends.

Technical Skills

Software Development & Architecture

- Programming Languages: Python, SQL, TypeScript, JavaScript, Java
- Backend Frameworks: REST, FastAPI, Flask, Django, Node.js, Express.js, Nest.js, GraphQL, WebSockets, gRPC
- Frontend: React, Redux, Next.js, Angular, Vue.js, HTML5, CSS3, Material-UI, Chakra UI
- Databases: PostgreSQL, NoSQL, DynamoDB, Redis, Elasticsearch, SQL Server, Prisma
- Architectures: Microservices, Monorepo, Event-Driven, Webhooks, Middleware
- Business System Integration: Stripe, Twilio, Internal Tools Development
- Operating Systems: Linux (Ubuntu, CentOS), macOS, Windows

Cloud & Infrastructure

- AWS: Lambda, EC2, API Gateway, S3, Redshift, RDS, SQS, CloudFormation
- Azure: App Service, Active Directory, Azure Functions, Virtual Machines
- Google Cloud Platform (GCP): BigQuery, Compute Engine, Cloud Functions, Cloud Run, Firebase
- Infrastructure as Code: Terraform, Ansible, AWS CDK
- Containers: Docker, Kubernetes, Istio, ECS
- CI/CD: GitHub Actions, Jenkins, Spinnaker

Computer Networking

- Protocols: TCP/IP, UDP, HTTP/HTTPS, FTP, SSH, DNS, DHCP, SIP, WebRTC
- Routing & Switching: VLANs, NAT, Subnetting, Static & Dynamic Routing, Load Balancing
- Network Security: Firewalls, VPNs, TLS/SSL, Zero Trust Networking
- Monitoring & Diagnostics: Wireshark, tcpdump, Netcat, Ping, Traceroute, Nmap
- Network Infrastructure: OSI Model, DNS Resolution, CDN Configuration, Reverse Proxies, Proxy Servers
- Networking Tools: iptables, OpenVPN, HAProxy, Nginx, Apache

Data Engineering & Analytics

- Warehousing: Airflow, dbt, Snowflake, BigQuery, Redshift
- Streaming: Kafka, Spark, RabbitMQ, Celery
- Security & Compliance: OAuth2, JWT, PCI DSS, GDPR, Cloud Security Best Practices
- Data Modeling: DataFrames, Dimensional Modeling, Star Schema
- Observability & Monitoring: LangSmith, Cloud Logging, Datadog, Prometheus, ELK, Splunk, AppDynamics, CloudWatch
- Logging: OpenTelemetry, Jaeger, Grafana
- Visualization: Matplotlib, Tableau, D3.js

Machine Learning & AI

- AI Implementation: Conversational AI, Multimodal interface
- AI Automation: LLM Planning, Parallelized Research, Structured Reasoning, Human-in-the-Loop AI, Marketing Compliance Automation, Auditing Automation, Workflow Automation, Human Feedback
- MLOps: AI Pipelines, MLflow, Kubeflow, SageMaker
- Deep Learning: TensorFlow, PyTorch, Keras
- Natural Language Processing: Tokenization, Sentiment Analysis, Google Speech API, GPT
- GenAI Technologies: , OpenAI APIs, Gemini, Claude, LangChain, LangGraph, Chatbot Automation, Retrieval-Augmented Generation (RAG), Agentic Workflows, Agent Tools, Prompt Engineering, Model Evaluation, Foundational Models, Model Context Protocol

Development Practices & Tools

- Version Control: Git, GitHub, GitLab
- Testing: PyTest, Jest, Cypress, JUnit, Jasmine, Postman, Automated Testing
- Quality Assurance: SonarQube, Performance Testing
- Documentation: Swagger, OpenAPI
- Project Management: Jira, Agile/Scrum, Confluence, SDLC

Collaboration & Leadership

- Led and mentored cross-functional engineering teams.
- Communicated effectively with researchers, engineers, and leadership.
- Complex problem-solving and deep technical issues.
- Promoted peer coding, code reviews, and technical documentation best practices.
- Delivered technical presentations to project stakeholders.
- Consistently delivered high-quality solutions in fast-paced, evolving technical requirements.
- Languages: English (Native), Spanish (Native)

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Education

Associate Degree in Computer Science, Business Applications Development
Harrisburg Area Community College, Harrisburg, PA, Graduated July 2020

C Programming & Computer Science Boot Camp

42 Silicon Valley, Fremont, CA, Completed Oct 2018

Certifications

- AWS Certified Machine Learning Engineer – Associate (2025)
- Generative AI Fundamentals – Databricks (2024)
- Designing Big Data Analytics Solutions – Great Learning (2024)
- Six Sigma White Belt (2024)
- Understanding Embeddings for Natural Language Processing – Hasso Plattner Institute, Dec 2023
- Data Analysis with Python – FreeCodeCamp (2021)