Gregory Basile

Technical Plumbing since 2012. If DevOps is the job title, are you even doing it?

Education

Sep'14 - Jun'16   **MSc, Computer Science**; Stevens Instutute of Technology (Hoboken, NJ)

Sep'08 - Jun'12   **BSc, Physics; Minor: Computer Science**; Rowan University (Glassboro, NJ)

Certification

Jan'24 - April'24   **Applied Data Science for Machine Learning**; **MIT Professional Education**

Professional Experience

April'24 - Now   **Member of Technical Staff: Udio**

As a key member of the founding engineering team at Udio, I spearheaded the development of a cutting-edge generative audio platform on Google Kubernetes Engine (GKE), leveraging Google's TPU compute platform for advanced model training and inference. I played a pivotal role in defining MLOps processes within a nascent and rapidly evolving domain, architecting robust, high-throughput inference systems designed for scalable performance.

Sep'19 - Jan'24   **Senior Software Engineer (Infrastructure): GoPuff**

Transformed a nascent cloud environment into a robust development platform, setting a high standard for future scalability. Key achievements include: • Defined best practices for deploying Azure, GCP, and AWS PaaS via Infrastructure as Code. • Architected networks, messaging buses, and databases for a high-traffic, multi-cloud logistics system. • Led GoPuff's Kubernetes (AKS) strategy, deploying the first cluster and driving organization-wide adoption.

Jan'19 - Aug'19   **Senior DevOps Consultant: Bankmobile Inc.**

Consulted on the transformation of a monolithic mobile banking backend into a white-label SaaS product with a focus on a repeatable, scalable infrastructure and simple form-based deployment pipelines.

Sep'16 - Dec'18   **Technical Operations Engineer: AlphaPoint Inc.**

At this cryptocurrency technology startup, I developed and maintained automated CI/CD pipelines for a stack serving over 100 exchange clients, enhancing deployment speed, and reliability. My collaboration with sales teams aligned operational strategies with customer needs, boosting satisfaction and retention. Additionally, I managed the secure integration and maintenance of diverse cryptocurrency nodes and wallets.

May'12 - Sep'16   Director of Information Technology: Automall 46 Inc.

Established, implemented, and maintained best practices and operational procedures governing the development, use, and administration of core infrastructure, and IT management platforms.

Technical Experience

Programming Languages

GoLang: My goto language for plumbing backends, with GRPC services, and async consumers.

Python: Training ML models, building inference pipelines, utility scripting, and avoiding async whenever possible.

Cloud Eng

Kubernetes: Kubernetes expert with comprehensive experience spanning high-level operations to low-level architecture. Proficient in developing operators and custom resource definitions.

Infrastructure as Code: Proficient in deploying resources across all major cloud platforms (AWS, Azure, GCP) using Terraform and Pulumi. Demonstrated expertise in leveraging IaC for efficient and consistent cloud infrastructure management.

Persistance on K8s: I have experience hosting a number of persistance systems on k8s: Kafka, Redis, MinIO and NFS servers.

Development Essentials

Scripting: Shell, Bash, PowerShell

Message Brokers: Redis, RabbitMQ, Kafka

CI/CD: GitHub Actions, Jenkins, Octopus

Containerization: Docker

Plumbing GRPC, REST, protos

Side Project

Collaboration tool for Digital Audio Workstations: Music producers often face limited collaboration opportunities within leading Digital Audio Workstations (DAWs) like Ableton and FL Studio. Since 2005, Git has revolutionized the way software developers collaborate and manage source control. Inspired by this, my aim is to harness the power of Git and source control to revolutionize collaboration for music producers, opening up new avenues for creative synergy and efficiency in music production.

Extras

- Eagle Scout, Boy Scouts of America
- Techno Producer, and DJ

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