Kyle Bradshaw

Backend & Platform Engineer

Links: GitHub | LinkedIn | Portfolio

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Location: Mission, TX

PROFESSIONAL SUMMARY

Backend and platform engineer focused on building and operating distributed systems. Experienced with many programming languages with hands-on work in microservices, Kubernetes, CI/CD pipelines, and observability tooling. Built systems that integrate APIs, data pipelines, and AI services, with a strong focus on reliability, performance, and system design.

PROJECT

AI Infrastructure & Microservices Platform *(see portfolio in header)*
Designed and deployed a Kubernetes-based platform demonstrating AI system integration, pipeline automation, and distributed service architecture.

- Built AI microservices (FastAPI) supporting RAG pipelines, document processing, and agent-based workflows
- Developed Go microservices for API routing, orchestration, and backend coordination
- Deployed system on Kubernetes (Minikube) using Docker containerization
- Implemented CI/CD pipelines (GitHub Actions) for automated build, testing, and deployment
- Integrated Qdrant vector database and local LLMs (Ollama)
- Designed system to reflect real-world AI platform infrastructure and toolchains
- Added Prometheus and Grafana for monitoring and observability
- Debugged and optimized distributed systems for performance and reliability
- Applied secure service communication and environment configuration practices

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PROFESSIONAL EXPERIENCE

Backend Engineer (Self-Employed)
August 2022 - present

- Built and maintained containerized backend and AI systems using Python and Go
- Developed and integrated microservices supporting AI workflows and data pipelines
- Designed and deployed systems using Kubernetes and Docker
- Deployed containerized services to cloud environments (GCP/AWS) for commercial use
- Debugged and optimized distributed systems across services and environments
- Designed APIs and backend systems for scalable, modular architectures
- Integrated external services into cohesive, production-style workflows

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TECHNICAL SKILLS

Languages: Go, Python, Java, TypeScript, SQL
Backend & Distributed Systems: Microservices, REST APIs, gRPC, Service Design, System Integration
Infrastructure & DevOps: Kubernetes, Docker, CI/CD (GitHub Actions), Cloud (GCP, AWS)
Data & Observability: PostgreSQL, Redis, Prometheus, Grafana, Logging
AI & Advanced Systems (Working Knowledge): RAG Pipelines, Vector Databases (Qdrant), LLM Integration

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EDUCATION

UNC Boot Camp, Chapel Hill , NC — *Certificate - Web Development*
Western Carolina University, Cullowhee, NC — *BS Engineer Technology*