Kyle Darden

Portfolio • GitHub • LinkedIn
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Backend Software Engineer focused on building **scalable APIs and distributed systems** using FastAPI, PostgreSQL, and Docker. Experienced in **CI/CD automation, container orchestration, and testing** for production reliability. Designs **modular, maintainable architectures** that improve team velocity and system uptime. Expanding expertise in **React and AWS** to deliver full-stack, cloud-deployable applications.

TECHNICAL SKILLS

- **Languages & Frameworks:** Python, SQL, Java, TypeScript, FastAPI, React, Spring Boot
- **Databases & Tools:** PostgreSQL, SQLite, Docker, AWS, GitHub Actions, CI/CD, Structured Logging
- **Build & Testing:** pip, npm, Gradle, Pytest, Postman
- **Concepts:** Domain-Driven Design (DDD), API Design, System Reliability, Monitoring

PROJECT EXPERIENCE

FreightFolio – Logistics SaaS Platform | GitHub • Case Study
Python • FastAPI • PostgreSQL • AWS • Docker • Pytest • CI/CD
- Designed and containerized multi-service APIs, reducing local setup time from **30+ minutes to under 2 minutes** via reproducible Docker environments.
- Implemented **automated CI/CD pipelines** with GitHub Actions, cutting manual deployment effort by **~80%** and increasing build reliability.
- Refactored backend modules using **Domain-Driven Design**, improving testability and enabling **25% faster feature iteration** across services.

CS2 Analytics – ETL Pipeline | GitHub • Case Study
Python • PostgreSQL • SQLAlchemy • Queue-Based Architecture • Structured Logging • Pytest
- Built an asynchronous **data ingestion pipeline** that is capable of processing **thousands** of data points with high data integrity across modular services.
- Exposed **RESTful APIs** with FastAPI delivering player and match insights with **sub-100ms response times** for downstream consumers.
- Enhanced reliability with completeness tracking and structured logging, enabling full traceability and reducing data reprocessing time by **~40%**.

Portfolio Website | GitHub • Case Study
Java • TypeScript • React • Spring Boot • Docker • GitHub Actions • CI/CD
- Developed and deployed a **single-page application (SPA)** showcasing backend projects with responsive UX and **100% Lighthouse performance score**.
- Automated build and deployment pipelines via Docker and GitHub Actions, achieving **zero manual steps** between commits and live production updates.
- Integrated a Spring Boot REST API with a TypeScript/React frontend, enabling seamless end-to-end communication between UI and backend services.

EDUCATION & CERTIFICATIONS

Post Graduate Certificate – Artificial Intelligence & Machine Learning
The University of Texas at Austin, McCombs School of Business (2024)
Bachelor of Science and Arts (B.S.A.) – Physics
The University of Texas at Austin, College of Natural Sciences (2022)