Kyle Darden

Austin, TX | 409-594-7273 | darden_kyle@hotmail.com | GitHub | LinkedIn

Backend Engineer | Python Specialist for Scalable Systems & Environment Management
Python backend developer with a strong foundation in AI/ML and experience configuring clean, reproducible development environments across complex projects. Built production-ready systems using FastAPI, PostgreSQL, and Docker with deep focus on dependency isolation, CI pipelines, and automated testing. Known for GitHub-first workflows, modular architecture, and detailed documentation across collaborative and solo codebases.

TECHNICAL SKILLS

- **Languages:** Python, SQL
- **Environment & Dependency Management:** venv, pip-tools, Poetry, requirements.txt, Makefiles, dotenv
- **DevOps & CI:** Docker, GitHub Actions, CI/CD, AWS (EC2, S3, Cognito, SES), Structured Logging
- **Backend Frameworks:** FastAPI, SQLAlchemy, Alembic, Pydantic
- **Databases:** PostgreSQL, SQLite, Redis
- **Testing & Tools:** Pytest, HTTPX, Unit & Integration Testing, Postman, Pre-commit Hooks
- **Version Control:** Git, GitHub (active contributor)

PROFESSIONAL EXPERIENCE

FreightFolio – Logistics SaaS Platform
Backend Developer | Project Lead, Mar 2025 – Present
Python | FastAPI | PostgreSQL | Alembic | AWS (Cognito, SES) | Docker | Pytest | HTTPX | Domain-Driven Design

- Enabled reproducible, multi-service development by containerizing backend APIs with Docker and creating Makefile-based bootstrapping for consistent local environments
- Improved CI reliability and team velocity by implementing GitHub Actions pipelines with automated testing, linting, and service-specific workflows
- Streamlined deployment and config management with standardized Dockerfiles and .env support
- Improved test coverage and observability using Pytest, HTTPX, and structured logging across services
- Delivered scalable backend architecture using Domain-Driven Design principles to isolate business logic and simplify microservice expansion

CS2 Pro Match Analytics Project (GitHub)
Python | PostgreSQL | BeautifulSoup | Queue-Based Architecture | Structured Logging | SQLAlchemy | Pytest

- Built an async data pipeline to scrape, queue, and parse thousands of CS2 matches using modular services
- Ensured data integrity and testability by isolating pipeline stages with dependency-controlled environments and coverage-verified Pytest modules
- Improved pipeline reliability and auditability through completeness flags, detailed metadata tracking, and timestamp-based data freshness controls
- Streamlined debugging using structured logs and Git-based workflows to track changes across scraper, parser, and storage stages
- Exposed internal analytics APIs with FastAPI to serve processed player and match statistics, enabling future expansion into web dashboards or public endpoints

EDUCATION

Post Graduate Certificate in Artificial Intelligence & Machine Learning
The University of Texas at Austin, McCombs School of Business (2024)
GPA: 4.22 / 4.33
Bachelor of Science and Arts (B.S.A.) in Physics
The University of Texas at Austin, College of Natural Sciences (2022)