James Brown

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Summary

Enthusiastic and highly skilled recent graduate with a passion for backend development and cloud technologies. My capstone project involved building a complete microservice-based application using FastAPI, PostgreSQL, Docker, and Kubernetes on AWS, mirroring the qualifications for this role. I am adept at problem-solving and thrive in collaborative, Agile environments.

Education

Bachelor of Science in Software Engineering, Honors | Premier Institute of Technology | Graduated May 2025

Skills

- **Languages:** Python, SQL
- **Backend:** FastAPI, RESTful APIs
- **Databases:** PostgreSQL
- **DevOps & Cloud:** Docker, Kubernetes, AWS (EC2, RDS, S3), CI/CD (GitHub Actions)
- **Tools:** Git, Postman, Pytest
- **Practices:** Agile, Code Review, Pair Programming

Projects

E-Commerce Microservices Platform | *Capstone Project*

- Led a team of three to design and build a microservices application for a mock e-commerce site.
- Personally developed the 'Orders' and 'Products' services using Python and FastAPI.
- Utilized a PostgreSQL database for each service, managed with a shared AWS RDS instance.
- Containerized all services with Docker and created Kubernetes manifests for deployment.
- Implemented a CI/CD pipeline using GitHub Actions that automatically tested and deployed services to a Kubernetes cluster running on AWS.
- Collaborated extensively with the frontend team to ensure successful API integration.