

ADITHYA ABHIRAM CHITTIMALLA

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Profile:

Final-year B.Tech Computer Science student (graduating March 2027) building production-style backend systems in Python and Flask — including an async billing API with Stripe webhook processing via Celery/Redis, and a real-time data platform with tiered caching. 400+ LeetCode problems solved; AWS-certified in Cloud Operations and Cloud Foundations.

Projects:

AbyFlow – Async SaaS Billing API | Python, Flask, Stripe, Celery, Redis, PostgreSQL, Docker

- Architected an event-driven billing API using Flask and PostgreSQL, integrating Stripe Checkout for secure subscription handling.
- Designed a non-blocking webhook system using Celery and Redis to process payment successes asynchronously, preventing API timeouts and duplicate database writes.
- Implemented robust authentication using JWT and Bcrypt, and containerized the multi-service architecture (Web API, Worker, DB, Redis) using Docker Compose.
- Wrote unit tests using Pytest to validate checkout creation and user authentication flows.
- Currently migrating the Dockerized architecture to AWS (EC2 and RDS) for scalable cloud deployment.
- GitHub : [AbyFlow](#)

AbyVest – Real-Time Portfolio Tracker and Data Aggregator | Python, Flask, Redis, PostgreSQL, Finnhub API, Docker

- Engineered a stock portfolio web app integrating Finnhub and external LLM APIs, implementing a Redis caching layer (60s TTL for quotes, 24h for profiles) to reduce external API calls and prevent rate-limiting.
- Developed a service-layer architecture to decouple external API logic from route handlers, improving code maintainability and testability.
- Built a context-injection system that dynamically formats user portfolio data from PostgreSQL into structured prompts for AI analysis.
- Deployed the application using Docker and configured PostgreSQL for production environments, currently transitioning the production environment to AWS (EC2/S3) for cloud hosting.
- GitHub : [AbyVest](#)

AbyNest – Modular Web Application Architecture | Python, Flask, SQLAlchemy, Cloudinary

- Developed a server-rendered web application utilizing the Flask App Factory pattern and Blueprints to achieve strict MVC separation and modular routing.
- Implemented Role-Based Access Control (RBAC) ensuring users can only modify their own data, alongside one-to-many database relationships.
- Integrated third-party cloud storage (Cloudinary) for secure image uploads and implemented server-side form validation using WTForms.
- GitHub : [AbyNest](#)

Technical Skills:

Programming : C++, Python, C

Backend and Architecture : Flask, REST APIs, Microservice Patterns, MVC, JWT Authentication

Databases and Caching : Redis, PostgreSQL, SQLite

Cloud and DevOps : AWS (EC2, S3, RDS), Docker, Docker Compose, Git, GitHub, Pytest

Web : HTML, CSS

Academics:

Computer Science and Engineering	8.57
CVR College of Engineering	2023-2027
Telangana State Board of Intermediate Education	96.40%
Narayana Junior College	2021-2023

Certifications & Cloud Training:

- AWS Academy Graduate - Cloud Operations | [Credly](#) | 2026
- AWS Academy Graduate - Cloud Foundations | [Credly](#) | 2026

Competitive Programming:

- LeetCode (adithya_abhiram_2805) – Solved 400+ Problems (Focus on DSA, Arrays, Strings, Trees, Graphs, DP and Greedy)