BHARATH SHANMUGAM

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OBJECTIVE

Enthusiastic and detail-oriented Backend Engineer with hands-on experience in backend development, API integration, and cloud computing. Proficient in using **Python, FastAPI, PostgreSQL, Docker**, and **AWS services** to develop scalable and optimized systems. Skilled in cross-functional collaboration, problem-solving, and data analysis, with a passion for enhancing user experience through efficient backend solutions. Actively seeking a role to leverage technical skills in developing innovative, scalable applications.

TECHNICAL SKILLS

Programming Languages	Python, C
Cloud Platforms	AWS (EC2, S3, RDS, Lambda, VPC, SNS)
API Frameworks	FastAPI, GraphQL, Apache Kafka
Tools and Version Control	Docker, Git, GitHub, VSCode
Databases	PostgreSQL, MySQL, SQL
Web Technologies	HTML, CSS, JavaScript
Operating Systems	Windows, Linux

WORK EXPERIENCE

Backend Engineer Intern   April 2024 - Present
TEK STRUCTURES

- **Optimized** system performance by 15% through Python code refactoring and efficient query optimization, reducing response times in a high-volume CRM system.

- **Integrated** server-side logic with user-facing components to create seamless user experiences, ensuring fast, reliable data handling.

- **Implemented** Agile practices in sprints, contributing to API design, backend logic, and inter-team collaboration.

- **Streamlined** version control using GitHub to maintain organized codebases, facilitate pull requests, and document code changes for team clarity.

- **Leveraged** Docker to deploy isolated, scalable microservices, enhancing modularity and development consistency across projects.

Key Achievements:

- Developed backend infrastructure for a CRM application with optimized FastAPI endpoints, achieving low-latency response times.

- Implemented PostgreSQL indexing and query tuning, reducing database latency by 20% and improving system performance.

- Architected Dockerized microservices, fostering scalable backend architecture suitable for high-traffic demands.

PROJECTS

Productivity App: Calendar and Todo (In Development)

- **Built** backend architecture with FastAPI and PostgreSQL, enabling responsive task management and real-time updates.

- **Automated** task scheduling with Apache Kafka, increasing system efficiency and ensuring timely task completion.

- **Maintained** version control through GitHub, emphasizing collaborative development, unit testing, and clean code practices.

WhatsApp CRM (Intern Project)

- **API Integration:** Created and optimized APIs to integrate WhatsApp for real-time communication, improving customer support interactions.

- **Automated Payments:** Integrated Razorpay API for seamless payment processing, increasing transaction success rates.

- **Tech Stack:** FastAPI, PostgreSQL, Docker.

All View Blogs (Personal Project)

- **Deployed** a scalable blog platform on AWS EC2 with autoscaling and load balancing to manage high traffic.

- **Secured** AWS environment using IAM roles and security groups, monitoring performance with CloudWatch for proactive adjustments.

EDUCATION

Bachelor of Technology, Electronics and Communication Engineering
Siddhartha Institute of Science and Technology, JNTU Anantapur   June 2022
CGPA: 7.02/10

SOFT SKILLS

- Effective communicator, adept at explaining technical concepts across teams.

- Adaptable and quick learner, excelling in fast-paced development environments.

- Strong problem-solver, skilled in analyzing and addressing complex technical issues under tight deadlines.