

BHARATH SHANMUGAM

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OBJECTIVE

Aspiring software engineer with hands-on experience in backend development and a solid foundation in technologies such as SQLModel, SQLAlchemy, FastAPI, PostgreSQL, Docker, and API integrations. Seeking to leverage my expertise in designing scalable systems, optimizing databases, and enhancing application functionalities in a challenging role at a forward-thinking organization. Committed to continuous learning, innovative problem-solving, and contributing to the success of dynamic development teams.

EDUCATION

Bachelor of Technology , Electronics and Communication Engineering

Siddhartha Institute of Science and Technology, JNTU Anantapur CGPA: 7.02/10, June 2024

Intermediate, Sri Chaitanya Junior College, Board of Intermediate Education, Tirupati, 2018

SSC, Little Flower English Medium High School, Secondary School Certificate, Tirupati, 2016

TECHNICAL SKILLS

Programming languages	Python, C
API Frameworks	FastAPI, GraphQL
Web technology	HTML, CSS, JavaScript
Database	MySQL, SQL, PostgreSQL
Cloud	Amazon Web Services (VPC, EC2, S3, RDS, LAMBDA, SNS)
Operating system	Windows and Linux
Computer tools	MS Word, MS Excel, MS PowerPoint
Tools	Git, GitHub, VSCode, Excel, Word, PowerPoint

WORK EXPERIENCE

Backend Engineer TEK STRUCTERS

April 2024 - Present

- **Developed:** Architected and implemented scalable backend solutions for the CRM system using Python, enhancing performance and reliability.
- **Directed:** Supervised PostgreSQL database schemas and optimized complex queries to ensure high efficiency and reliability.
- **Leveraged:** Employed Git and GitHub for version control, maintaining high code quality and streamlining team collaboration.
- **Collaborated:** Orchestrated closely with the frontend team, participating in daily standups and status calls to ensure seamless integration and project alignment.
- **Deployed:** Ensured smooth application deployment and scalability using Docker, facilitating consistent development environments.
- **Integrated:** Incorporated third-party APIs, including WhatsApp, to enhance system functionalities and enable real-time messaging capabilities.
- **Leveraged:** Applied AWS Cloud knowledge to support various backend tasks and improve overall system performance.
- **Operated:** Utilized the Linux operating system for efficient development and deployment processes.

Key Achievements:

- **Architected and Implemented:** Engineered the CRM backend using FastAPI, ensuring efficient data handling and seamless frontend integration.
- **Optimized:** Utilized SQLAlchemy and SQLModel to design robust database models, optimizing PostgreSQL for high performance.
- **Containerized:** Deployed applications using Docker, enabling consistent environments and facilitating easy scalability.
- **Enhanced:** Integrated WhatsApp APIs to provide real-time messaging capabilities, significantly improving customer interaction and engagement.
- **Maintained:** Managed project source code with Git and GitHub, ensuring efficient version control and collaboration.

PROJECTS

1 SMART PARKING SYSTEM

- Crafted a user registration website for Smart Parking System.
- Enabled online reservation of parking spaces through a web application.
- Executed a confirmation alert upon user registration.
- Integrated a map icon for easy navigation using Google Maps.
- Utilized LED indicators to display parking space numbers.
- Recorded entry and exit times, generating bills upon departure.

2 All View Blogs

- Created and hosted a website on Amazon Linux using Elastic Compute Cloud.
- Implemented a load balancer to manage incoming website traffic.
- Utilized an auto-scaling group to optimize website traffic.
- Maintained production code backups in a GitHub repository.
- Monitored server performance using CloudWatch.

SOFT SKILLS

- Effectively articulate ideas through exceptional verbal and written communication skills
- Collaborate seamlessly with team members, fostering an environment of effective teamwork
- Rapidly acquire new knowledge and skills, showcasing a proactive approach to continuous learning
- Exhibit versatility and thrive in varied and dynamic environments
- Showcase a demonstrated ability to deliver high-quality results within established timelines
- Proactively engage with developers to collaboratively tackle daily challenges.

DECLARATION

I hereby affirm that the information provided is accurate to the best of my knowledge.

(BHARATH SHANMUGAM)