BHARATH SHANMUGAM

+91 7981346556 ⋄ bharathshanmugam.github.io/
bharathshanmugam12@gmail.com ⋄ linkedin.com/in/bharath-shanmugam-337191222/

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
Web technology	HTML, CSS, JavaScript
Database	Structured Query Language (SQL)
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, MySQL, VSCode
Microsoft tools	Excel,Word,Power point

WORK EXPERIENCE

Backend Engineering Intern   April 2024 - Present
TEK STRUCTERS

- Designed and developed scalable backend architecture for the CRM system.
- Managed database schemas and optimized queries for performance.
- Ensured smooth deployment and scalability using Docker.
- Integrated third-party APIs to enhance system functionalities.
- Maintained code quality and facilitated team collaboration using Git and GitHub.

Key Achievements:

- **Architected and Implemented:** Designed and developed the CRM backend using FastAPI, ensuring efficient handling of customer data and seamless integration with the frontend.
- **Database Management:** Leveraged SQLModel and SQLAlchemy to create robust database models and queries, optimizing PostgreSQL for high performance and reliability.
- **Containerization:** Utilized Docker for containerizing applications, enabling consistent development and deployment environments, and facilitating easy scalability.
- **API Integration:** Integrated WhatsApp APIs to enable real-time messaging capabilities, enhancing customer interaction and engagement.
- **Version Control and Collaboration:** Managed project source code using Git and GitHub, ensuring efficient collaboration and version control.

1 SMART PARKING SYSTEM

- Developed a user registration website for Smart Parking System.

- Enabled online reservation of parking spaces through a web application.

- Implemented 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)