RAHUL VADDI

Senior Engineer at Bosch Global Software Technologies 🌐

📞+91 9159811187 ✉ Email 💼 LinkedIn 🔗 Portfolio

Profile Summary

- 3+ years of experience in tech, with 1.6 years focused on Azure DevOps, Azure services, and FastAPI development.
- Skilled in containerization (Docker) and orchestration (Kubernetes), optimizing application scalability and deployment.
- Experience in AI/ML model deployment, testing Sensor Interface KPI tools, and UI development with PyQt Designer.

Experience

Bosch Global Software Technologies – Cloud Engineer, ADAS Technology   **January, 2023 – Present**

- Developed and Deployed Microservices: Implemented Python back-end logic using FastAPI for ML model inferencing, containerized modules using Docker, and deployed them in a microservices architecture with Azure Container Registry (ACR) and Kubernetes for orchestration.
- Automated CI/CD and Workflow Management: Built automated deployment pipelines and used Apache Airflow for workflow orchestration, creating DAGs to manage and automate data workflows and task execution.

Bosch Global Software Technologies – Backend Developer   **July, 2022 – January, 2023**

- Developed and Deployed Scalable AI/ML Tool: Built a tool for AI/ML model deployment using FastAPI, Docker, and cloud migration techniques, hosted on Azure Cloud. Deployed Azure Web App Service for automatic scaling and load balancing.
- Version Control and Documentation: Utilized Git in Azure DevOps for source code management and created an endpoint for a pre-trained model in Azure Machine Learning Studio, documenting the deployment and inference process in the organization's wiki.

Projects

Commuter Flow Projection based on Long Short-Term Memory | RNN   **November, 2020**

- The motive of this project to analyse the statistical data characteristics of historical passenger flow is the premise basis for proposing the prediction scheme, improving the prediction method and obtaining more accurate prediction results.

Driver Sleep Detection System | Artificial Intelligence, DL   **April, 2020**

- The motive of this project is to locate, track and analyse both the driver's face and eyes to compute a drowsiness index to prevent accidents.

Celkart Management System | Summer Internship | CSS, DJANGO, HTML5, PYTHON   **May, 2019**

- The motive of this project is to meet the demands of modern online shoppers while providing sellers with the tools they need to succeed in the digital marketplace and to show best offers to the customers. Used python programming language to implement backend logic, and API integrations and while employing frontend technologies like HTML, CSS for the user interface.

Skills

- **Architecture:** Microservices, Deployment Architecture.
- **Backend:** Python, RESTful APIs.
- **Cloud Development:** Azure App Services, Azure Kubernetes Service (AKS), Azure Container Registry.
- **Cloud DevOps:** Azure DevOps for CI/CD pipelines, Docker, Kubernetes, Service Connections.
- **Cloud Infrastructure:** Azure Blob Storage.
- **Databases**: MongoDB.
- **Data Engineering:** Apache Airflow (ETL).
- **Frameworks/Technologies:** FastAPI, GitHub.
- **Monitoring & Observability:** Grafana, Prometheus.
- **Operating Systems:** Windows, Linux.
- **Scripting:** Bash (Shell).
- **Languages:** English (Full Professional), Hindi (Full Professional), Kannada (Elementary), Telugu (Native/Bilingual).

Education

Vellore Institute of Technology   **Vellore, Tamil Nadu**
Master of Technology (Integrated), Software Engineering   June, 2016 – July, 2021

Extra circular / Certifications

- Azure DevOps crash course - build ci/cd release pipelines - View Certificate**.**
- Awarded Extra Miler for being active part of a team.
- Received Shout Award for my active contributions.
- Mentorship and Knowledge Sharing: Mentored colleagues in cloud technologies, developed training materials, led scrum presentations, and assisted in onboarding new team members to ensure smooth project execution.