

Sai Charan Karangula

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Experience

Full Stack Software Developer, Bosch Global Software Technologies – Hyderabad, Telangana August 2022 – Present

- Collaborated in an Agile development team to design, build, and maintain web-based applications using Angular 14, .NET 7, and RESTful APIs.
- Developed a robust web application using Angular and TypeScript on the front end, with C# .NET and Entity Framework on the back end, to support secure data handling and seamless interaction with the database.
- Ensured high code quality and scalability by implementing best practices in Continuous Integration and Continuous Deployment (CI/CD).
- Developed reusable components to improve development efficiency and optimized the system for better performance across various user platforms.

Software Intern, Bosch Global Software Technologies – Bangalore, Karnataka August 2021 – May 2022

- Pioneered a license-free Docker setup on Windows Subsystem for Linux (WSL), saving the cost annually by eliminating the need for Docker Desktop.
- Configured Docker environments on WSL, streamlining deployment processes for development and testing environments without additional licensing costs.
- Collaborated with the development team to optimize Docker configurations, enhancing the efficiency of containerized applications and reducing build times.
- Assisted in documenting Docker workflows and best practices, improving knowledge sharing among team members and facilitating onboarding of new developers.

Skills

- **Technologies and Frameworks:** Angular, .NET Core, ASP.NET, Docker, GitHub, CI/CD GitHub Actions, Agile Methodologies, Elasticsearch
- **Programming Languages:** C#, TypeScript, HTML, CSS, SQL, PowerShell, YAML
- **Technical Skills:** Database Design, Version Control (Git, Bitbucket), Unit Testing, Debugging, Problem Solving, Containerization/Dockerizing

Personal Projects

Containerization Using Docker

- Led the implementation of containerization to enhance cross-platform compatibility for a web application, improving deployment consistency across different operating systems and reducing time-to-deploy.
- Tools Used: Docker, Containerization, Cross-Platform Compatibility

CI/CD for Docker Image Management Using GitHub Actions

- Developed and implemented a CI/CD pipeline using GitHub Actions for automating the building, testing, and deployment of Docker images.
- Configured the pipeline to trigger on repository updates, ensuring automatic Docker image builds upon merging pull requests into the main or release branches.
- Tools Used: GitHub Actions, Docker, CI/CD

Corrupt Word Recognition System

- Designed an Artificial Neural Network (ANN) model for identifying corrupted text in medical manuscripts. Processed a dataset of 218 images for training and achieved an 83.1% accuracy in validation tests.
- Tools Used: Artificial Neural Networks, Medical Text Recognition, Data Preprocessing

Education

VIT University, M.Tech Integrated Software Engineering (Computer Science) July 2017 – May 2022

- GPA: 8.6

Sri Chaitanya College, Higher Secondary Education (MPC) August 2015 – March 2017

- GPA: 9.61