ADARSH **BP**
FULL STACK DEVELOPER

✉ bpadarsh8@gmail.com | 📞 +91 7406686010 | 📍 Bangalore |
🔗 https://github.com/AdarshBP | https://www.linkedin.com/in/adarsh-bp

SUMMARY

Innovative web development professional with over **5.6 years** of experience across diverse domains, including work in **Germany** and other **European regions**. Currently specializing in developing enterprise-grade applications at **Mercedes-Benz Research and Development India** to solve complex business challenges. Specialized in enterprise-grade web applications using **Spring Boot**, **Angular**, **Go**, **Java**, and **Python**, with expertise in **CI/CD**, **Kubernetes**, **Docker, AWS, and cloud services**. Skilled in leveraging Generative AI (**Azure OpenAI**, **LLMs**) and advanced monitoring tools to optimize performance and efficiency. Proven ability to identify and address technological needs through innovative solutions that drive business growth.

TECHNICAL SKILLS

- **Programming Languages:** Java (Core/Advanced), Go, Python, JavaScript
- **Web Technologies**: HTML, CSS, Angular
- **Databases:** PostgreSQL, (MongoDB, Firebase) NoSQL, Redis, KeyDb.
- **Cloud:** AWS, Oracle Cloud, Heroku, Vercel
- **DevOps:** Docker, Kubernetes, Jenkins, GitHub Actions, ArgoCD**,** CI/CD Pipelines, DevSecOps (SC, SCA, DAST).
- **GenAI & LLM:** Azure OpenAI, GenAI Solutions, Hugging Face
- **Frameworks & Tools:** Spring Boot, Spring MVC, JPA, Hibernate, Spring Cloud Microservices, ELK, Kafka
- **Data Analytics**: Google analytics, Apache Superset, OpenSearch, Grafana
- **Testing & Automation:** JUnit, Sauce Labs, UFT, RPA (Automation Anywhere)

PROFESSIONAL EXPERIENCE

SR SOFTWARE DEVELOPER, (SEPT 2021 – PRESENT)
MERCEDES BENZ RESEARCH AND DEVELOPMENT INDIA

- Developed Cloud-Native applications for Mercedes-Benz vehicles, delivering intuitive solutions for vehicle operation item searches and carbon emission analysis using modern tech stacks like **Java**, **Go**, **Python**, **Kubernetes (EKS)**, and **SQL/NoSQL databases**.
- Spearheaded an automated solution for resolving static analysis findings by developing the GenAI tool reducing code quality issues by 30% through seamless integration into CI/CD pipelines.
- Designed scalable solutions, improving resource utilization by 25%, and streamlined workflows for authoring, auditing, and publication of operation data, ensuring high reliability and performance.

SOFTWARE DEVELOPER,(JUNE -2019 – SEPTEMBER 2021)
ATTRA INFOTECH PVT LTD

- Worked on full-stack web applications for data processing, visualization, and rendering across microservices.
- Orchestrated cross-functional collaboration across backend, frontend, and QA teams, delivering 20+ feature releases reducing deployment bugs by 40% and boosting release efficiency by 35%.
- Managed critical upgrades, ensuring 99% uptime, and optimizing resource consumption, contributing to a 10% reduction in operational costs.

COLLEGE INTERN, (JUNE 2018 – AUGUST 2018)

 BANASHREE SYSTEM

- Contributed to microcontroller programming and networking for VLSI chips, leading to the successful integration of hardware solutions in 3 high-impact projects.

COLLEGE INTERN, (JAN 2018 – MARCH 2018)

KNOWX INNOVATION

- Worked on backend development which included communication with microcontrollers for IOT-based smart car parking systems that included various communication protocols.

EDUCATION

BACHELOR OF ENGINEERING (ECE), JNNCE (VTU)

2015 - 2019

- Completed 25+ projects, including government-funded initiatives and received 30+ awards in inter-college competitions. Graduated with an 8.2 GPA, awarded "Best Outgoing Student" in the ECE branch.
- Actively volunteered for NSS activities.

PRECOLLEGE, NALANDA INTERNATION PU COLLEGE

2013 - 2015

- Completed Precollege in Computer Science(PCMC) as a major subject, secured 86% with the "Best Student" award in that batch.

PROJECTS

XENTRY OPERATION TIME

Application for operational efficiency in vehicle management.

- Programmed full-stack application for Mercedes-Benz cars and vehicles, enabling intuitive FIN/VIN-based search for crucial operation items and times.
- The project featured a responsive UI and complex workflows for authoring, auditing, and publication.

CODEFIX AI

GENAI-driven tool for code analysis and remediation

- Engineered an automated solution for resolving static analysis findings using Generative AI.
- Leveraged Azure OpenAI and large language models (LLMs) to analyze and generate code fixes for identified issues.
- Seamless integration with existing CI/CD pipelines and significantly improving code quality through intelligent, automated remediation.

CARE IT

Application that analyzes and optimizes carbon emissions.

- Innovation patented solution to measure and manage the carbon emissions of applications by analyzing resource utilization across backend services, VM, ECU, Data centers, Applications.
- Integrated advanced monitoring tools, data analytics, and reporting functionalities.

- Provides actionable insights, including emission offsets, cost implications, and recommendations for optimization.

ISO 8583 CARD SWITCH SIMULATOR

Credit card transaction validation simulation tool.

- Implemented a microservices-based credit card switch simulator, improving transaction validation speed by 15%.
- Integrated monitoring tools and CI/CD pipelines for seamless operation.

GITIGNORE FILE GENERATOR

Tool for simplifying project setup. https://gitignore-generator.streamlit.app

- Streamlit based tool that allows developers to generate customized. gitignore files for various project types.

LLM YOUTUBE ASSISTANT

YouTube assistant leveraging GENAI. https://llm-youtube.streamlit.app

- Enhanced user engagement by developing a GenAI-powered YouTube Assistant capable of answering user queries from video content.
- Utilizes Sentence Transformer Embeddings and Azure-based OpenAI for large language model capabilities.

QR CODE GEN

Dynamic QR Code generation tool. https://qrcodegeneration.streamlit.app

- Easily create QR codes for URLs, text, and more. Customize size, color, and error correction level. Simple yet powerful!

LLM DRUG INTERACTION

Application for drug interaction analysis https://drug-interaction/adarsh.com

- Developing a solution that detects drug-drug interactions and side effects using foundation LLMs from Hugging Face

FINANCE MANAGEMENT

Small In-house financial management platform

- Developing a mobile-friendly site for managing the complex financial transactions of a small group owned by the mother and her friends.
- Reduces time by 60% to calculate unique distributed interest rates every month and manage the loans taken by each person avoiding errors by 80%.

INTERESTS AND VOLUNTEER

- Passionate about coding, playing PC games, Chess and Foosball.
- Actively volunteered during the COVID-19 pandemic to provide oxygen and essential medicines.