GANESHA N HOTTI

SOFTWARE ENGINEER

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TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C# Programming
Backend Frameworks: FastAPI, FlaskAPI
Frontend Frameworks: Angular
Database: SQL Server, MySQL, PostgreSQL
Libraries & Tools: PyQt, NumPy, Pandas, SQLAlchemy, Matplotlib, Postman
Cloud & Devops: AWS, Azure, Docker
Version Control & Project Management: Git, JIRA

EXPERIENCE

Software Engineer   Aug 2022 – Present
Boeing India Pvt. Ltd.   *Bengaluru, Karnataka, India*

- Developed and implemented GUI components using PyQt, enabling users to visualize and analyze ISS Thermal data were efficiently processed, resulting in a 60% reduction in processing time.
- Integrated Pytest for comprehensive testing, ensuring reliability and accuracy of the application through extensive test Coverage.
- Achieved high code coverage with 92% in testing, enhancing the application's stability by identifying and resolving potential issues early in the development cycle.
- Developed and maintained Asset Maintenance Metrics system using Python, ensuring efficient back-end processes and data handling.
- Applied data analysis and visualization techniques to gain insights into maintenance performance.
- Developed RESTful APIs with FastAPI, improving modularity and scalability, reducing response time by 30% and increasing system efficiency.
- Performed database design and queries in SQL Server, streamlining data access and improving application performance.
- Optimized web application performance, ensuring 100% cross-browser compatibility, leading to a 20% improvement in load times and a smoother user experience.

PROJECTS

Railway Ticket Booking API | *FastAPI, PostgreSQL, Docker*

- Developed a REST API to book, cancel, and view train tickets using FastAPI and PostgreSQL.
- Implemented multi-tier seat allocation (Confirmed/RAC/Waiting List) with automatic promotion logic upon cancellations.
- Incorporated priority booking rules for senior citizens and families, enforced through SQL transactions and constraints.
- Containerized with Docker for streamlined deployment and local development setup.

Placement Management System | *PHP, MySQL, AWS*

- Developed a scalable and secure Placement Management System using PHP, MySQL, and AWS.
- Automated student registration and placement tracking, reducing manual effort by 60%.
- Implemented real-time status updates for students and recruiters, enhancing transparency.
- Digitized records and automated key processes, minimizing administrative workload.

EDUCATION

M.S. Ramaiah Institute of Technology   Bengaluru, Karnataka, India
Bachelor of Engineering in Information Science   *Sep 2019 – Jul 2022*

ACHIEVEMENTS

- Secured 2nd Prize in the YourStory | Snowflake – Hero Challenge 2025, a national-level data innovation hackathon.
- Project of the year Award 2022 for Placement Management System Project.
- Secured 776 rank in Diploma CET conducted throughout Karnataka State.