Nawaz Warsi

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Experience

Tata Elxsi   Jun 2023 – Present
Software Engineer   *Bangalore, India*

- Developed and executed automated test scenarios for real-time system validation, covering multiple vehicle control modules and ensuring **95%** test coverage for software verification.
- Optimized HIL (Hardware-in-the-Loop) validation scripts, reducing the test execution time by **30%** and improving the efficiency of the system using a proprietary scripting language.
- Designed and maintained 150+ test cases, identifying critical software defects and improving the detection rates of errors by **25%**, ensuring seamless software-hardware integration.
- Analyzed and processed gigabytes of sensor data and system logs in dozens of test cycles, identifying software anomalies, debugging failures, and collaborating with cross-functional teams to improve the reliability of the system.

Algo University   Sep 2024 – Present
SDE Externship   *Hyderabad, India (Remote)*

- Developing a **MERN-based online judge** that allows users to compile and execute programs in C++, Python, and Java without software installation.
- Built a full-stack web application with **React.js** (frontend), **Node.js** & **Express.js** (backend), and **MongoDB** (database) to handle user interactions and code execution.
- Designed and implemented API endpoints for program execution, user authentication, and containerized the backend using **Docker** for scalability.
- Deployed the backend using **AWS** (EC2 & ECR) and the frontend using Vercel, ensuring high availability and performance.

Projects

House Easy | *Python, Scikit-Learn, AWS, Flask, RESTful API, Excel, Postman*   Github ↗

- Developed a web application for house price prediction in Bangalore using features like BHK, area, and bathrooms.
- Applied linear regression with Scikit-Learn in Python for accurate price predictions.
- Deployed the model using Flask on an AWS EC2 instance, ensuring scalability and seamless user interaction.
- Enabled real-time predictions via RESTful APIs.

Technical Skills

Programming Languages: C++, Python, JavaScript, SQL

Technologies/Frameworks: Node.js, Express.js, React.js, MongoDB, RESTful APIs

Databases: MySQL, NoSQL

Cloud & Devops: Amazon Web Services (AWS), Docker, Git, GitHub

Core Subjects: Data Structure and Algorithm, Operating System, Networking, Database

Miscellaneous: Multithreading, Design Patterns, Low Level Design, High Level Design, Microservices, Agile, Kafka

Achievements

- Solved **800+ Data Structures and Algorithmic** problems on coding platform such as **LeetCode** ↗ and **GFG** ↗
- Contest Rating: **1660 @ LeetCode** ↗
- Secured World Rank **1750** among 34K+ participants in Leetcode Weekly Contest 415, top **5%** of Leetcoders.
- Received **5*** in **C++**, **Problem Solving** and **SQL** by **HackerRank** ↗

Education

Lovely Professional University   July 2019 - May 2023
B.Tech : Computer Science And Engineering(CSE)   *CGPA : 8.08*