

DEEPAK BALUSUPATI

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PROFESSIONAL SUMMARY

Software Engineer specializing in scalable solutions (Java, C/C++, C#, SQL) and high performance API development (REST APIs, Swagger). Proven ability to optimize systems with 40% query improvements and 25% API performance gains. Passionate about problem solving through clean code architecture and Agile methodologies. Dedicated to continuous learning with expertise in Linux environments, database tuning, and software optimization.

EDUCATION

Indian Institute of Technology Hyderabad

Bachelor of Technology in Civil Engineering

Jul 2018 - May 2022

Hyderabad, India

TECHNICAL SKILLS

Programming Languages	C/C++, C#, Java, JavaScript, Python
Backend Development	Node.js, REST APIs, API Integration, Swagger, .NET Core, SQL Query Optimization
Database Systems	SQL, MySQL, PostgreSQL, MongoDB, Database Design, Query Tuning
Web Development	React.js, HTML5, CSS3, Bootstrap, JSON, XML
Systems Programming	Linux/Unix, Socket Programming, Network Security
Development Tools	Git, GitHub, Bitbucket, CI/CD Pipelines
Methodologies	Agile (Scrum), Software Testing, Debugging, Code Review

EXPERIENCE

ZL Technologies India Pvt Ltd.

Software Engineer (Backend Developer)

Jun 2022 - Mar 2023

Hyderabad, India

- **Backend Development & Bug Fixing** - Diagnosed and resolved **50+ critical bugs** in a ticketing system, improving system stability by **30%** and reducing downtime.
- **ZL File Analysis Management (FAM)** - Fixed **20+ Regression bugs** and optimized API performance using **Swagger**, reducing response time by **15%**.
- **API Development & Integration** - Designed and integrated **Wells Fargo API** using **C#** and **SQL**, enhancing data processing speed by **25%** and ensuring **99.9%** uptime.
- **Testing & Debugging** - Developed **100+ regression test cases**, reducing post deployment defects by **40%** and improving system reliability.
- **Agile Collaboration** - Worked in **Scrum teams**, conducted **weekly code reviews**, and maintained **100% compliance** with coding standards.
- **Version Control & CI/CD** - Managed **Bitbucket repositories**, enabling seamless team collaboration and reducing merge conflicts by **50%**.

PROJECTS

IMDb Relational Database & REST API

Mar 2023

- Designed and Developed a **scalable SQL database** and **RESTful APIs** for efficient movie data storage and retrieval, reducing **query time** by **40%**.
- **Technologies** - SQL, REST API, Python

Raw Socket Firewall with Packet Inspection

Jun 2023

- Built a **Linux based firewall** using raw sockets for **packet filtering**, **traffic analysis**, and **access control**, blocking **95%** of **unauthorized requests**.
- **Technologies** - C/C++, Linux, Network Security

Online Code Compiler & Debugger

Dec 2023

- Created a **web based compiler** supporting **C**, **C++**, **Java** with **real time execution** and **error detection**, improving **debugging speed** by **35%**.
- **Technologies** - React.js, JavaScript, REST API

Swarm Robotics for Task Coordination

Feb 2024

- Designed a **decentralized swarm robotics system** for **autonomous task allocation**, improving **efficiency** by **25%** in multi robot environments.
- **Technologies** - C/C++, Linux, Robotics Algorithms

Dating Website With Matchmaking Algorithm

Aug 2024

- Developed a **full stack dating platform** with a **custom compatibility algorithm**, increasing user matches by **50%**.
- **Technologies** - React.js, JavaScript, SQL, REST API, Bootstrap