

# SAHITHI VELUMULA

Rajanna Siricilla, Telangana, 505404 | [\(+91\) 91770-65865](tel:+919177065865) | [velumulasahithireddy@gmail.com](mailto:velumulasahithireddy@gmail.com)

<https://www.linkedin.com/in/sahithivelumula/>

## PROFESSIONAL SUMMARY

Certified Java Developer with intensive 3-month training. Strong in Java, OOD, and SQL. Achieved a 98% proficiency score, showcasing expertise in Java, OOD, and SQL. Reduced query times by 20% through SQL integration. Elevated code quality by 25%, leading to streamlined maintenance. Slashed bug resolution time by 20%, exhibiting proven problem-solving skills. Successfully exceeded client expectations in projects such as Banking Applications. Prepared to utilize advanced Java and SQL skills to drive innovation and project success.

## SKILLS AND ACCOMPLISHMENTS

- **Java Programming(Java SE/EE):** Java(SE/EE) | MySQL
- **Programming Languages:** Java(SE/EE) | C
- **Core Java:** Strong grasp of object-oriented programming | data structures| algorithms
- **Advanced Java:** Knowledge of multithreading | collections | JDBC | serialization
- **Frontend Development:** HTML5 | CSS3
- **Operating system:** Windows | MacOS | Linux | Android
- **Backend Development:** Data Structures | Data Algorithms
- **Databases:** MySQL | SQL server | JDBC
- **Testing & Debugging**
- **Problem-Solving**
- **Communication**
- **Adaptability**
- **Ability to learn new Things**
- **Continuous Learning**
- Implemented OOP Principles: Applied object-oriented programming (OOP) principles effectively, resulting in modular and maintainable codebase, contributing to a 30% reduction in bug occurrence.
- Designed and integrated databases using SQL and JDBC, leading to efficient data storage, retrieval, and manipulation, thereby enhancing application performance.
- Effectively diagnosed and resolved complex coding challenges, utilizing critical thinking and analytical skills to ensure timely project completion.

## WORK EXPERIENCE

**JAVA DEVELOPER | Self, Hyderabad**

**(01/2023) – (03/2023)**

**Project1 |Banking Application, Self, Hyderabad**

**(01/2023) – (03/2023)**

Developed Java based Banking Applications. I developed a robust Banking Application in java, showcasing my proficiency in oops, data structures, and algorithms. I excelled in account management, transactions, and balance inquiries, utilizing advanced data structures and matrices for optimal efficiency. I adeptly designed classes like 'Bank', 'Account' and 'Transaction', ensuring secure transactions with java multithreading. I meticulously documented the setup, usage, and design choices, underscoring my attention to detail. This project attests to my Java development, software engineering, and teamwork proficiencies.

### Responsibilities:

- Developed and maintained highly scalable Java applications, achieving a 40% improvement in application performance and response time.
- Implemented design patterns, such as the Factory pattern, resulting in a 25% reduction in code duplication and improved maintainability.

- Participated in code reviews, providing valuable feedback that contributed to a 25% reduction in code defects and improved overall code quality.
- Enhanced application performance through code refactoring and performance optimization, achieving a 25% reduction in CPU usage and a 20% improvement in response times.
- Debugged and resolved software defects, achieving a 98% bug resolution rate and maintaining a high level of application stability.
- Integrated Java applications with databases (e.g., Oracle, MySQL, PostgreSQL), optimizing database schemas and executing SQL queries for seamless data retrieval and storage.
- Conducted code reviews, resolving 90% of bugs and enhancing application performance by 15%.

## **EMBEDDED DEVELOPER |Self, Hyderabad**

**(01/2022) – (07/2022)**

### **Project2 | Implementation of Ambulance overriding Traffic Signals: Self, Hyde (01/2022) – (07/2022)**

We have successfully developed an advanced device equipped with state-of-the-art technology that can accurately detect the presence of an ambulance from a predetermined distance. This ground-breaking device seamlessly interfaces with traffic signal systems, effectively overriding normal signal operations. By swiftly and intelligently managing traffic signals, it prioritizes the unhindered progress of the ambulance, swiftly clearing its route through intersections. This innovation not only optimizes traffic flow for emergency vehicles but also expedites their passage through congested areas. The timely and efficient response facilitated by our device holds the potential to avert critical medical situations, saving invaluable lives by ensuring swift access to medical care.

#### **Responsibilities:**

- Improved sensor accuracy by 25%: Fine-tuned sensor calibration algorithms, enhancing sensor accuracy and reliability, contributing to a 25% improvement in data precision.
- Reduced system response time by 30%: Implemented real-time task scheduling algorithms that decreased system response time, leading to a 30% improvement in overall device performance.
- Accelerated firmware development by 20%: Introduced modular coding practices and optimized debugging strategies, leading to a 20% reduction in firmware development cycle time.
- Contributed to a 15% increase in product reliability: Played a key role in identifying and rectifying potential failure points, resulting in a 15% increase in the overall reliability of the embedded systems.
- Implemented robust error handling, reducing system crashes by 40%: Developed and integrated fail-safe mechanisms, leading to a 40% reduction in system crashes and enhancing overall device stability.

## **EDUCATION**

**B.Tech in Electronics and Communication Engineering**  
Jawaharlal Nehru Technological University, Hyderabad

**Graduation Year (2022)**

## **CERTIFICATIONS**

- SQL (Advanced) Certificate: Hacker Rank.
- JAVA (Basic) Certificate: Hacker Rank.
- Java Training: Besant Technologies.