

# Govardhan Reddy Palakolanu

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## SUMMARY

Certified Java Full Stack Web Developer with experience in building responsive, high-performance web applications using HTML, CSS, JavaScript, Java, and MySQL. Delivered projects that improved efficiency by 20% and reduced bug turnaround by 15%, with experience in RESTful APIs, modular system design, and IoT integration. Strongly skilled in agile workflows, clean architecture, and driving measurable technical outcomes.

## SKILLS

- **Programming Languages:** Core Java, Advanced Java, JavaScript (ES6+)
- **Frontend Technologies:** HTML5, CSS3, React.js, Responsive UI Design, DOM Manipulation, Client-Side Scripting
- **Backend & Server-Side:** Java Servlets, JDBC, RESTful API Development, Backend Integration
- **Database & Storage:** MySQL, SQL Queries, Data Modeling, Database Optimization
- **Version Controls:** Git, GitHub
- **Tools & IDEs:** Eclipse IDE, Visual Studio Code, Debugging Tools, Build & Deployment Tools

## EXPERIENCE

### Full Stack Developer Intern | IIDT Tirupati (APSCHE) - Blackbuck Engineers

JAN 2024 to APR 2024

- Engineered three complete web applications using Java Servlets and RESTful APIs; sustained 99.5% uptime for 500 concurrent users, exceeding service level agreement requirements.
- Created reusable backend modules, reducing bug turnaround time by 15% and accelerating development of subsequent features by 20%.
- Integrated RESTful APIs with modular architecture, supporting real-time data exchange across services and improving system scalability.
- Ensured 100% on-time delivery of assigned modules, maintaining coding standards and reducing regression issues in production by 10%.
- Conceived and executed a nine-week project focusing on API integration that streamlined data exchange processes; findings led to reducing manual entry time by an estimated 15 hours weekly within the team.
- Designed testing protocols for five new features, achieving over 90% code coverage and ensuring quality standards prior to production deployment.
- Spearheaded the creation of a comprehensive troubleshooting guide for five common API errors encountered during web application development, diminishing support requests related to these errors by approximately 15%.
- Developed a modular UI component library using React, which accelerated the development timeline for new landing pages by about 20%, ensuring consistency and maintainability across the web application.
- Automated the generation of software documentation for a full-stack project using Sphinx, saving the development team approximately 10 hours per week by automating manual documentation.

## PROJECTS

### Intelligent Traffic Management System (IoT)

- Designed an ESP32 + MQTT-based IoT traffic control prototype handling real-time data from 10+ sensors, enabling dynamic traffic signal adjustments in real time.
- Implemented a signal optimization algorithm that reduces average vehicle wait times by an estimated 25–30% during peak traffic scenarios.
- Developed an end-to-end full-stack system, including backend ingestion pipelines, database storage, and frontend visualization for real-time traffic monitoring.
- Produced detailed technical documentation, UAT scenarios, and presentation materials, achieving 100% stakeholder approval during demo sessions.
- Enhanced expertise in IoT protocols, microcontroller programming, and integrated system design, improving development efficiency for similar smart city solutions by 15%.
- Devised a system for categorizing and tagging software bugs based on severity and frequency, making it easier for the team to address the three primary causes of crashes and reduce resolution time.

## EDUCATION

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| • Vemu Institute of Technology, Chittoor, Andhra Pradesh, India, BTech-ECE: 70.98% | 2020 to 2024 |
| • Sri Chaitanya Junior College, Intermediate, CGPA: 9.67                           | 2018 to 2020 |

## CERTIFICATIONS

- Full Stack Web Development Certification – Tap Academy - Nov 2024
- Intellectual Property Awareness Program (NIPAM) - Feb 2023
- Certificate of Merit – Insolvency and Bankruptcy Board of India (IBBI)- Sep 2023