

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