

NIDUMOLU BALA ROHITH

Email: rohithnidumolu@gmail.com | Mobile: +91-7386432810 | Location: Vuyyuru, Andhra Pradesh
LinkedIn: linkedin.com/in/rohithnidumolu | GitHub: github.com/Rohith-180503

SUMMARY

Motivated 2024 Graduate Engineer with a strong foundation in **Java, SQL, and System Troubleshooting**. I am an excellent **verbal and written communicator** with a proven ability to collaborate effectively in professional corporate environments. As a quick learner, I am eager to support system development, maintenance, and upgrades as an **Associate System Engineer**, and I am fully committed to contributing to organizational growth through technical documentation and proactive problem-solving.

EDUCATION

Bachelor of Technology, Electrical and Electronics Engineering SRKR Engineering College GPA: 7.95/10	2020 – 2024
Intermediate (MPC) Narayana Junior College, Vijayawada Score: 910/1000	2018 – 2020
Secondary School Flora English Medium School, Vuyyuru GPA: 10/10	2017 – 2018

SKILLS

- Technical Core:** Java (Core), SQL (MySQL/Oracle), JavaScript (ES6+), React.js.
- System Support:** Analytical Troubleshooting, Debugging, System Maintenance.
- Professional Strengths:** **Strong Verbal & Written Communication**, Adaptability, Team Collaboration.
- Tools & Workflow:** Git, GitHub, VS Code, Windows OS, Microsoft Office Suite.

TECHNICAL PROJECTS

Online Learning Platform <ul style="list-style-type: none">Engineered a dynamic course portal using React Functional Components and hooks for state orchestration.Implemented efficient data-processing algorithms using <code>map()</code> and <code>filter()</code> to manage complex JSON metadata.Developed a centralized state management system with real-time total calculations, ensuring high precision.Optimized front-end performance by utilizing a component-based architecture and modular CSS/Flexbox.	<i>React, JavaScript, CSS3</i>
Responsive Task Management Application <ul style="list-style-type: none">Developed a full-featured CRUD application enabling users to manage data with real-time DOM synchronization.Integrated LocalStorage persistence, applying core principles of data durability and non-volatile storage.Designed custom form validation algorithms and data sanitization logic to maintain application integrity.Applied modular JavaScript design patterns to enhance code maintainability and streamline debugging.	<i>JavaScript, HTML5, CSS3</i>
Endless Runner Game <ul style="list-style-type: none">Designed a high-performance game loop using <code>requestAnimationFrame</code> for smooth 60fps browser animations.Developed a custom collision detection algorithm based on real-time coordinate calculations.Managed complex conditional workflows and asynchronous execution to track scoring and difficulty scaling.	<i>JavaScript, HTML5, CSS3</i>
Regenerative Braking & Energy Management Simulation for EVs <ul style="list-style-type: none">Engineered a comprehensive simulation framework to evaluate energy recovery efficiency in BLDC motor-driven EVs.Integrated multi-domain modeling of battery packs and motor dynamics to simulate realistic driving conditions.Developed a closed-loop control strategy utilizing PID controllers to optimize braking torque and stability.Implemented visualization tools to analyze the impact of regenerative systems on battery longevity and range.	<i>MATLAB/Simulink, PID Control</i>

PROFESSIONAL EXPERIENCE

Graduate Engineer Intern Voltech Engineers Pvt. Ltd. Chennai, India <ul style="list-style-type: none">Collaborated on the commissioning of high-voltage substations, ensuring system-level technical integrity.Prepared Single-Line Diagrams (SLDs) and control panel layouts with strong attention to technical detail.Conducted analytical troubleshooting and fault analysis to identify and resolve system-level issues.Documented technical processes to ensure adherence to security and operational efficiency standards.	Jul 2024 – Mar 2025
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ADDITIONAL INFORMATION

- Languages:** English (Fluent), Hindi (Fluent), Telugu (Native).