

Madhu Nag

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SUMMARY

Backend Java Developer with 3+ years of experience at Wipro, focused on building secure, scalable APIs and automation frameworks. Hands-on expertise in Spring Boot, Java, REST APIs, Cucumber (BDD), CI/CD pipelines, and PCF deployments. Strong grasp of Agile workflows, clean code practices, and client-facing delivery.

WORK EXPERIENCE

Wipro – Client: Charles Schwab

Jan 2023 – Present

Backend Java Developer

- **Upgraded token generation logic** from legacy **S0 to S2 tokens** by enhancing backend services and integrating updated libraries, enabling **more secure and scalable authentication** for end users.
- Enabled real-time config refreshes through **Busrefresh event handlers** and **scheduled cron jobs**, improving operational control and system reliability.
- Integrated OAuth service updates for media-type-specific access token delivery (**JWT/SAML**).
- **Achieved 100% code coverage** by writing comprehensive **JUnit unit and integration tests**, ensuring alignment with SonarQube compliance benchmarks.
- Developed **reusable Cucumber BDD frameworks**, reducing manual API test execution time by **60%** across all environments.
- Managed **deployments** and incident resolution across **4+ non-prod PCF environments**, performing **service restaging and downtime mitigation** with minimal impact to QA teams.
- Leveraged **Studio3T** for complex **MongoDB** operations and integrated **LaunchDarkly feature flags** to manage high-risk releases safely.
- Resolved vulnerabilities identified by **SonarQube and Veracode**, improving code quality and security.
- Build and upgrade **RESTful APIs** for secure token handling, including partial updates and scope management.

Wipro - Scholar Trainee

Mar 2022 – Dec 2022

E-Passport

- Completed foundational training in **Java and full-stack development** under Wipro's WILP program. Gained experience in Backend and Frontend development through live projects.
- Built a full-stack web application titled 'E-Passport' with user and admin login functionality.
- Developed dynamic features such as application form submission, document upload, and printable forms.
- Used Spring Boot for backend development and ReactJS with Bootstrap for frontend UI.
- Implemented MVC architecture, RESTful services, and version control using Git.

TECHNICAL SKILLS

Languages: Java, SQL

Frameworks Architecture: Spring Boot, JUnit, REST APIs, Cucumber, Microservices

DevOps & Cloud: Bamboo, Harness, PCF, Git, Jenkins

Tools: Postman, Splunk, Studio3T, SonarQube, Veracode, LaunchDarkly

Other Skills: Agile Development, OAuth2, CI/CD Pipelines, System Debugging

EDUCATION

M.Tech in Software Engineering (Pursuing)

2023 – 2027

BITS Pilani – Wipro WILP

Bachelor of Computer Applications (BCA)

2017 – 2020

MAKAUT, West Bengal

CGPA: 8.04