

SUMANTH GOWDA HL

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SUMMARY

Java Application, Backend Developer with 3+ years of experience in backend development and scalable enterprise applications. Proficient in Core Java, Spring Boot, REST APIs, SQL, and CI/CD pipelines. Passionate about writing clean, maintainable code and actively contributing to Agile teams.

SKILLS

Languages & Technologies: Java, Python, SQL, HTML, CSS, Spring Boot, Spring, Qt Designer

Database & Tools: Git, GitHub, CI/CD, Maven, JUnit, RESTful APIs, NX API, StarCCM+ API, MySQL, PostgreSQL

Cloud: AWS, Azure

WORK EXPERIENCE

Backend Developer (Java)

TCS Jul 2024 – Present

- Proficient in backend development using **Spring Boot** and **RESTful Framework**, with hands-on experience in building and integrating APIs for enterprise applications
- Developed scalable and secure **RESTful APIs** using **Spring Boot**, enabling seamless interaction between client and server systems
- Supported CI/CD pipelines by configuring build and deployment workflows using **Maven, Git, and GitHub**; improved system reliability and reduced manual errors

Software Engineer

TCS Jun 2022 – Jun 2024

- Built basic responsive front-end interfaces using HTML, CSS, and integrated them with backend services via RESTful APIs for efficient data handling.
- Designed and developed user interfaces for **standalone Python** tools using **Qt Designer**, enhancing usability for engineering teams.
- Worked closely with clients, followed clean code practices, maintained detailed documentation, and mentored colleagues on tools and technologies.

PROJECTS

Real-Time Weld Monitoring System (Java, Spring Boot, React)

Client: Battery Manufacturing — Quality Control

- Designed and implemented a real-time weld monitoring system using **Spring Boot** and React to track failed modules through **busbar data**, integrated with machine learning data in backend for strength prediction
- Developed **PostgreSQL** tables for key entities including **Plant, Station, Module, Busbar, and Weld** using **Spring Data JPA** to ensure efficient and scalable data management. Built **RESTful APIs** with Spring Boot's REST framework to support real-time data access and updates for the weld monitoring system.

Material Selector GUI (Python, PyQt)

- Developed a standalone using **Python and Qt Designer** to automate material selection for 3D printing. The tool identifies the most suitable machine for manufacturing a component by dynamically filtering and analyzing data from a CSV file using add-in solver.
- Integrated dynamic filtering of .csv data using **Pandas** for efficient and flexible data handling. Implemented logic to connect with an external solver add-in, automating complex filtering operations on the dataset.

Battery Layout Automation Tool (Java, NX Open API)

- Automated battery pack layout generation using **NX and Java** automation. Leveraged NX Expressions to create dynamic links between variables, enabling the layout to adapt based on input values.
- This automation **reduced the manual effort** of identifying suitable battery pack designs by **30%**, significantly improving efficiency.

Portfolio Website (HTML, CSS)

- Designed and deployed a personal portfolio showcasing skills, resume, and projects.
- Designed HTML page with responsive CSS, and followed the clean layout principles.

EDUCATION

B.E. Mechanical Engineering, Navkis College of Engineering (VTU), 2017–2021

GPA: 8.1/10

Coursework: Java, spring boot

CERTIFICATIONS & AWARDS

Google Cloud Certified (2023), PDCA CI/CD Certified (reduced errors by 20%), TCS Automation Award

LEADERSHIP & INTERESTS

Led automation initiatives, conducted team meetings and client interactions, actively contributed to code reviews and refactoring, and participated in knowledge transfer sessions while mentoring team members.