

# Sujay Babu Tumu

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## SUMMARY

Software Development Engineer specializing in scalable **backend systems** and database optimization. Experienced in designing **low-latency REST APIs**, implementing secure authentication mechanisms, and building production-ready applications handling **thousands of daily requests**. Strong foundation in **Data Structures** and **system design** fundamentals.

## EDUCATION

Degree/Certificate	Institute/Board	CGPA	Year
B.Tech. CSE	Indian Institute of Information Technology, Nagpur	7.5/10	2022-26

## EXPERIENCE

<b>SDE Intern – TripFactory</b> <i>Tech:</i> Core Java, Servlets, JSP, Hibernate (ORM), PostgreSQL, JDBC, REST APIs • Built scalable backend modules using <b>Core Java and Servlet</b> architecture handling <b>5K+ daily requests</b> . • Optimized <b>PostgreSQL queries</b> and indexing strategies, reducing average <b>API response time</b> by <b>30%</b> . • Implemented <b>Hibernate ORM</b> with entity mapping and <b>transaction management</b> ensuring <b>ACID compliance</b> . • Integrated secure <b>REST APIs</b> with role-based authorization, improving workflow automation efficiency by <b>25%</b> . • Conducted load testing using <b>JMeter</b> to validate performance stability under <b>concurrent user traffic</b> .	Jan 2026 - Present Bengaluru
<b>SDE Intern – LabelLift</b> <i>Tech:</i> React.js, Node.js, Next.js, Cloudinary, Git, JavaScript • Reduced platform <b>load time</b> by <b>40%</b> through frontend optimization and <b>lazy loading</b> strategies. • Improved backend processing speed by <b>35% via query optimization</b> and efficient API design. • Built real-time features using <b>Socket.io</b> supporting <b>10K+</b> active users with stable concurrent connections. • Designed scalable <b>REST APIs</b> capable of handling <b>high concurrency</b> traffic with improved reliability.	Oct 2025 - Nov 2025 Remote

## PROJECTS

<b>Enterprise Work Management &amp; Intelligence Platform</b> <i>Tech Stack:</i> Java 17, Spring Boot, React, PostgreSQL, Hibernate, Docker • Architected full-stack system managing tasks with <b>RBAC-based workflows</b> across Manager and Engineer roles. • Designed scalable <b>REST APIs</b> with <b>JWT</b> authentication ensuring modular and maintainable services. • Optimized PostgreSQL schema using <b>indexing and query tuning</b> , reducing average query latency by <b>28%</b> . • Implemented <b>audit logging</b> and concurrency-safe status updates ensuring <b>transactional consistency</b> . • Integrated <b>Redis caching</b> layer reducing repeated database reads and improving API response time under high load.	Nov 2025 - Dec 2025 GitHub
<b>Nomads — Group-Based Travel Booking Platform</b> <i>Tech Stack:</i> Spring Boot, Java, PostgreSQL, Next.js, Razorpay, Mapbox • Engineered a booking system with <b>transactional consistency</b> to prevent double-booking under concurrent requests. • Implemented <b>asynchronous processing</b> for booking confirmations to improve responsiveness during peak traffic. • Built secure Spring Boot REST APIs with JWT-based authentication and role-based access control. • Designed normalized PostgreSQL schema ensuring <b>ACID compliance</b> for booking and payment workflows.	Jan 2026 - Feb 2026 GitHub
<b>Multi-Vendor Food Delivery App</b> <i>Tech Stack:</i> MERN Stack, JWT, REST APIs, MongoDB • Built a scalable MERN-based food ordering platform supporting vendor onboarding and role-based access control. • Designed modular REST APIs achieving <b>&lt;200ms average latency</b> under simulated concurrent traffic. • Optimized MongoDB performance using <b>indexing, pagination, and query optimization</b> for large product datasets.	Aug 2025 - Sept 2025 GitHub   Deploy

## SKILLS

- Languages:** Java, C++, Python, C
- Backend Development:** Spring Boot, Hibernate (ORM), Node.js, Express.js, REST APIs, Redis, JWT
- Databases:** PostgreSQL, MongoDB, MySQL, Indexing, Query Optimization
- System Design & Architecture:** RBAC, Microservices Architecture, Concurrency, Caching Strategies
- Core Computer Science:** Data Structures & Algorithms, Operating Systems, DBMS, OOP
- DevOps & Cloud:** Docker, AWS (EC2, S3), CI/CD, Git

## ACHIEVEMENTS

- Solved 400+ DSA problems across **LeetCode (Rating: 1630+)** and **GFG** with proficiency in **DP, Graphs and Trees**.
- Won **INTSO National Gold Medal (Top 1% nationwide)** and secured top ranks in **EAMCET (TS: 2036, AP: 2218)**.