

# SATWIK G J

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Portfolio · GitHub · LinkedIn · LeetCode

## Professional Summary

Junior Software Engineering student with strong expertise in building scalable full-stack web applications, mobile platforms, and AI integrations using Python, Java, JavaScript, React.js, and FastAPI. Holds a **9.45/10 CGPA** while solving **270+ LeetCode problems**, combining robust problem-solving skills with practical software architecture fundamentals to deliver internship-level engineering solutions.

## Education

|                                                                                                                       |                                           |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>B.M.S. College of Engineering, Bengaluru</b><br><i>Bachelor of Engineering in Computer Science and Engineering</i> | Expected May 2028<br>CGPA: <b>9.45/10</b> |
| <b>Karakala Janasudha P.U. College</b><br><i>Higher Secondary / Pre-University Course (PCMC)</i>                      | May 2024<br>Percentage: <b>98.33%</b>     |
| <b>Shri Sathya Sai Loka Seva Vidya Kendra, Alike</b><br><i>CBSE Class X</i>                                           | May 2022<br>Percentage: <b>93.00%</b>     |

## Skills

**Technical Languages & Frameworks:** Python, Java, C, Kotlin, JavaScript, SQL, React.js, Node.js, Express.js, FastAPI, Flask  
**Databases & Developer Tools:** MongoDB, PostgreSQL, MySQL, SQLite, Firebase, Git, GitHub, Android Studio, VS Code, Postman  
**Software Engineering Practices:** Object-Oriented Programming (OOP), Debugging, Unit Testing, Code Review, Agile Methodologies  
**Delivery & Collaboration:** Requirements Gathering, Technical Documentation, Cross-Functional Collaboration, Issue Tracking

## Projects

|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Personal Developer Portfolio</b>                                                                                                                                                                                                                                                                                                                                                                                                                        | <i>Next.js, TypeScript, Tailwind CSS, Framer Motion, Vercel</i> |
| <ul style="list-style-type: none"><li>Designed and deployed a responsive personal portfolio showcasing projects, technical skills, achievements, coding profiles, and resume.</li><li>Built using Next.js, TypeScript, Tailwind CSS, and Framer Motion with JSON-driven content management for easy updates and scalability.</li><li>Deployed on Vercel with GitHub CI/CD for automatic production deployments after every code push.</li></ul>            |                                                                 |
| <b>Smart Expense Tracker with AI</b>                                                                                                                                                                                                                                                                                                                                                                                                                       | <i>React.js, FastAPI, PostgreSQL, Gemini API</i>                |
| <ul style="list-style-type: none"><li>Architected a full-stack personal finance platform enabling automated income/expense tracking, budget limits, and savings goals.</li><li>Integrated Google Gemini API to produce real-time spending insights, budget optimization recommendations, and monthly reports.</li><li>Implemented secure JWT authentication, transaction categorization, dynamic interactive charts, and CSV/PDF data exporting.</li></ul> |                                                                 |
| <b>Smart School Management System</b>                                                                                                                                                                                                                                                                                                                                                                                                                      | <i>React.js, Node.js, MongoDB, Gemini API</i>                   |
| <ul style="list-style-type: none"><li>Engineered an AI-powered multi-tenant platform tailored for administrators, teachers, students, and parents.</li><li>Utilized Google Gemini API to dynamically generate clash-free academic timetables based on faculty constraints and availability.</li><li>Built automated attendance tracking, grade calculation engines, live map-based bus tracking, and Excel bulk onboarding.</li></ul>                      |                                                                 |
| <b>SMYS Food Count – Meal Management App</b>                                                                                                                                                                                                                                                                                                                                                                                                               | <i>Kotlin, Jetpack Compose, Firebase Firestore, WorkManager</i> |
| <ul style="list-style-type: none"><li>Developed a role-based meal management Android app with 5 customized portals deployed for <b>108 active users</b>.</li><li>Designed a sticky-copy meal-selection engine and automated locking schedules using Android WorkManager background tasks.</li></ul>                                                                                                                                                        |                                                                 |

## Achievements & Certifications

- Problem Solving:** Solved **270+ Data Structures and Algorithms** problems on LeetCode.
- Academic Distinction:** Secured **98.33%** in Pre-University board exams and maintained a **9.45 CGPA** in engineering.
- Certifications:** Completed *Introduction to Node.js*, *Introduction to Git*, and *MongoDB Fundamentals*.
- Certificate Portfolio:** Verified Google Drive Credentials

## Extracurricular Activities

- Competitive Chess:** Represented school/college at the District Level, honing strategic problem-solving skills.
- Team Sports & Writing:** Active cricket tournament participant; passionate about Kannada article writing and tech content creation.