

SHUBHAM JAISWAL

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PROFESSIONAL SUMMARY

Curious pre-final year CS student dedicated to engineering **scalable backend architectures** and **innovative AI solutions**. Analytical problem-solver who enjoys tackling advanced algorithmic challenges with a LeetCode score exceeding 1600.

EDUCATIONS

Visvesvaraya Technological University (VTU) | Belagavi, Karnataka

Aug 2023 - Aug 2027

Bachelor of Engineering in Computer Science

CGPA : 8.68

• Relevant Coursework: Data Structures, Algorithms, DBMS, Operating Systems, Software Engineering, Machine Learning

PROJECTS

CODE RUNNER | 🌐 Github

- Architected a secure remote code execution engine using Docker containerization and Bun, enabling isolated, sub-millisecond algorithmic testing.
- Implemented Redis Pub/Sub to manage concurrent job queues asynchronously, preventing execution bottlenecks on the Node.js and Express backend.
- Designed a scalable relational schema using Prisma and PostgreSQL to track user submissions, deploying the full TypeScript infrastructure on Vercel for high availability. Technologies / Tools Used: TypeScript, Node.js, Express, Bun, Docker, Redis, Prisma, PostgreSQL, Vercel.

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APPOINTY – Full-Stack Healthcare Scheduling Platform | 🌐 Github

- Architected a scalable **RESTful backend** using Node.js and Express, implementing **concurrency-safe scheduling logic** to prevent race conditions during peak booking requests.
- Implemented end-to-end security and automated deployment, enforcing **JWT-based Role-Based Access Control (RBAC)** with Bcrypt hashing and orchestrating zero-downtime continuous deployment via Vercel.

Technologies / Tools Used : Node.js, Express.js, MongoDB Atlas, Mongoose, JWT, Bcrypt, Tailwind CSS, Vercel, Git

Real-Time Chat Application

- Created **scalable messaging platform** handling **10,000+** daily messages using **WebSocket protocol**.
- Implemented typing indicators, online status, message persistence, and session authentication.
- Designed responsive UI with real-time updates ensuring seamless cross-device experience.

Technologies / Tools Used : Node.js, Socket.io, MongoDB, WebSockets

Stock Price Prediction System

- Built **time-series model** using **Random Forest** achieving **82%** prediction accuracy.
- Automated data pipeline fetching **1000+** stock records daily from financial APIs.
- Performed feature engineering with technical indicators and created visualization dashboard.

Technologies / Tools Used : Python, scikit-learn, Random Forest, Pandas

SKILLS

Databases : MySQL, PostgreSQL, MongoDB, Redis, Supabase

Frameworks & Libraries : Node.js, Express.js, TensorFlow, Flask, React, Express, Tailwind CSS

Programming Languages : Java, Python, C++, SQL, JavaScript, C

Soft Skills : Data Structures & Algorithms, OOP, System Design, Problem Solving, Critical Thinking

Tools & Platforms : Git, Docker, Maven, Postman, Jenkins, JUnit, GitHub

AWARDS & ACHIEVEMENTS

- **Bronze Medalist**, Science Olympiad (Hindustan, India): Recognized for exceptional scientific reasoning and problem-solving skills.
- **Round 3 Qualifier**, Google BIG CODE (India): Advanced to the third stage of Google's rigorous coding competition, demonstrating high-level algorithmic proficiency.
- **Algorithmic Problem Solver**: Completed over **1,000 challenges** on LeetCode and HackerRank, mastering advanced Data Structures and Algorithms (DSA).
- **Hackathon Finalist**: Secured top-10 placements in multiple hackathons across more than **10 competitions**.
- **Technical Workshop Lead**: Designed and delivered a comprehensive session on Machine Learning fundamentals for over **50 students**.
- **Coding Club Organizer**: Coordinated university-level competitive programming contests to foster a vibrant engineering culture.
- Ranked **848/25,000+** in LeetCode Weekly Contest 465.