

JAY SONI

Software Development Engineer | Python Backend Developer | Django, FastAPI

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GitHub: <https://github.com/jaavysoni> | LeetCode: <https://leetcode.com/u/jaavysoni>

Portfolio: <https://sde-jaysoni-portfolio.vercel.app> | LinkedIn: <https://www.linkedin.com/in/jaavysoni>

PROFESSIONAL SUMMARY

Backend-focused Software Development Engineer with strong experience in Python (Django, FastAPI) building scalable APIs and real-time systems. Worked on production-level projects involving caching, asynchronous processing, and database optimization, with deployments on AWS. Comfortable with data structures and problem-solving, and looking to contribute to high-impact engineering teams.

TECHNICAL SKILLS

Python, SQL, Django, FastAPI, Flask
REST APIs, Redis, PostgreSQL, MySQL, MongoDB, SQLite
AWS (EC2, S3), Docker, Nginx, GitHub Actions, Linux
Git, Jira

EXPERIENCE

Python Backend Intern · Keshava Elite Projects (KEP Labs)

Feb 2026 – Present · Bhopal, India

- Built and maintained REST API endpoints using Django/FastAPI
- Handled database operations including queries and data flow management
- Implemented backend logic for request handling and processing
- Extended existing backend codebase by adding/modifying APIs
- Debugged API issues to ensure correct responses and stability
- Tested APIs using Postman and validated outputs

PROJECTS

Crypto Trading Simulator | January 2025 – June 2025 GitHub: <https://github.com/jaavysoni/Crypto-Trading-Simulator>

- Engineered a real-time backend system using FastAPI and WebSockets, handling **90+ concurrent connections** for live financial data streaming and order simulation
- Optimized performance using Redis caching, reducing API latency by **40–60%** and improving throughput under high-frequency read workloads
- Designed transaction and portfolio management logic using FIFO-based matching, supporting **hundreds of simulated trades per session** with accurate profit/loss calculation
- Automated CI/CD deployment pipeline via GitHub Actions on AWS EC2 with Docker containerization

E-Voting System 2.0 | July 2025 – January 2026 GitHub: <https://github.com/jaavysoni/E-Voting-2.0>

- Designed and implemented scalable REST APIs handling **2,000–3,000 concurrent users** with layered FastAPI → Services → MongoDB architecture
- Optimized MongoDB queries and indexing for faster data retrieval under high concurrent voting load, improving read performance at scale
- Implemented secure voter authentication using bcrypt with duplicate-vote prevention ensuring **one-vote-per-user integrity**
- Built real-time vote counting and result aggregation APIs with consistent and accurate tallying under peak concurrent load

Event-Driven Notification System | January 2026 – February 2026 GitHub: <https://github.com/jaavysoni/Event-Driven-Notification-System>

- Designed an event-driven backend architecture using RabbitMQ to decouple services and handle asynchronous notification processing at scale
- Implemented producer-consumer workflow with retry mechanisms ensuring **zero message loss** on delivery failures
- Integrated Google OAuth2 for secure authentication and SendGrid for transactional email delivery
- Developed background worker services for asynchronous notification dispatching with middleware-based request validation

ACHIEVEMENTS

- Recognized by Crypto.com engineers on GitHub for project architecture and implementation quality
- Solved 130+ DSA problems on LeetCode
- Completed 10+ AWS Educate certifications covering cloud, compute, databases, and security

EDUCATION

B.Tech in Computer Science Engineering | Prestige Institute of Management & Research, Bhopal | 2022 – June 2026