

# SHIV WASUDEO RANE

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## EXPERIENCE —

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### Software Developer Intern

*June – Present*

TRIPSAVERZ

- Constructed and fine-tuned an **ELK pipeline (Filebeat, Logstash, Elasticsearch, Kibana)** to store and visualize Spring Boot logs for monitoring and analytics
- Implemented **Apache Kafka** for real-time event streaming with fault tolerance and asynchronous inter-service communication.
- Developed a **rule-engine powered notification microservice** in Spring Boot, enabling dynamic business logic execution and reducing hard-coded dependencies.
- Optimized API performance by implementing **caching mechanisms in Spring Boot**, reducing average response time by **20%**.

## PROJECTS —

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### Tyndall – Advanced trading analytics platform | [\[live\]](#) [\[github\]](#)

Built a production level platform which allows intraday traders to analyze their overall performance.

- Implemented JWT authentication for **secure login with OTP mechanism** and proper email/password validation and password hashing using Bcrypt.
- Utilized Redis for **caching, real-time data processing**, and improving application performance by reducing database load and enabling fast data retrieval.

### Auto Trading Bot | [\[github\]](#)

Built a production-grade, real-time trading automation backend which fetched real time candle with Binance WebSocket APIs.

- Integrated **Binance live WebSocket streams** to fetch tick-level price data with <100ms latency, enabling instant buy/sell triggers.
- Designed **resilient WebSocket infrastructure** with heartbeat (ping/pong) and auto-reconnect to maintain persistent data flow even under network drops.
- Built a **scalable event-driven architecture** capable of supporting multiple trading pairs and custom strategies concurrently.
- Implemented **stateful position tracking** (entry price, P&L, position type) and exposed it via secured REST APIs for frontend and analytics consumption with minimum **latency of 25ms**.

### AI based email reply generator

Developed an AI-driven backend tool to auto-generate professional email replies using Gemini API.

- Integrated Redis rate limiting and JWT-based auth to control free-tier abuse.
- Used Spring Boot to serve optimized REST APIs for fast AI interactions.
- Built a modern frontend with React + Vite + Tailwind CSS.
- Added payment gateway integration for premium access.

### Secure User Authentication API | Case Study - [Medium.com](#) [\[github\]](#)

Built a production-ready OTP authentication API using Spring Boot, JWT RS256, and Redis — ready to plug into any secure backend system.

- Email/password login + OTP-based 2FA. Utilized **JWT (RS256)** issuance via **httpOnly cookies**
- Redis-based rate limiting (OTP + verification attempts)
- RSA keypair signing, BCrypt password hashing
- Designed for stateless auth and integration-ready for microservices.

## SKILLS –

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**Language** – Java, Python, Golang, JavaScript

**Framework** – Spring Boot, Fast API, React, React native

**Databases** – MySQL, PostgreSQL, MongoDB, Redis

## EDUCATION –

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**Dr D Y Patil ACS College**

Bachelor's in Computer Application

**Akudi Pune**

Aug 2022 – June 2025

- CGPA – 8.2/10
- Relevant Course - AI, Data Structure, OS, DBMS, Computer Networking, Data Science.