

Anurag Singhal

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EDUCATION

Malaviya National Institute of Technology Jaipur

Bachelor of Technology (8.00 CGPA)

Jaipur, Rajasthan

Nov. 2020 – May 2024

Nirmal Happy Sr. Sec. School

12th Rajasthan Board of Secondary Education (93.80%)

Karauli, Rajasthan

July 2019 – July 2020

EXPERIENCE

SDE-1

HT Digital Streams (The Hindustan Times)

June 2024 – Present

New Delhi, India

Vernacular & Livemint.com | Java, Spring Boot, MongoDB, Redis, Elasticsearch

- Revamped backend architecture using optimized APIs, Redis caching, and Elasticsearch, resulting in **60%** higher user engagement and supporting a peak of **1.5M daily traffic**.

Markets | Java, Spring Boot, Spring WebFlux, MongoDB, Redis

- Developed and optimized a real-time data streaming service using Spring WebFlux and reactive programming, integrating third-party providers (**Refinitiv, Morningstar, Dion**) to enable non-blocking data processing and concurrent user handling. Improved system throughput and reduced latency by **40%** through multithreading, WebSocket-based live stock price updates, and real-time caching.
- Engineered an **early alerting system** to detect critical market fluctuations in real time enhancing robustness and decision-making capabilities.
- Built a **Real-Time Trade Alert Notification feature** with MoEngage integration by building a scheduler service to monitor live stock prices against trade recommendations. Detected stop-loss and target-hit events in real time and pushed alerts asynchronously to a centralized message queue, enabling timely and reliable notification delivery to subscribed users.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, ExpressJS, ReduxJS, Spring

Developer & AI Tools: Git, VS Code, IntelliJ, Github Copilot with Claude Sonnet, Eclipse, Cursor, Windsurf

Others: Data Structures, OOPS, Database Management System (DBMS), System Design, MySQL, MongoDB, Jest, Redis, Microservices, SpringBoot, Spring WebFlux, REST, GraphQL

ACADEMIC PROJECTS

eCommerceElite | ReactJS, NodeJS, ExpressJS, ReduxJS, MongoDB

- Developed a full-stack e-commerce website from scratch using several tech stacks.
- Crafted a responsive and interactive UI with React, managing global state effectively using Redux.
- Architected and wired up 15+ RESTful APIs using ExpressJS and NodeJS to support core backend functionalities.
- Secured the application by incorporating JWT-based authentication and role-based authorization flows.
- Connected PayPal API to simulate a seamless real-time checkout and transaction experience.

ACHIEVEMENTS

- Solved **1500+ Problems** on different Platforms (LeetCode, GeeksForGeeks, CodeStudio).
- Secured **29th Rank** in CodeRush Coding Challenge MNIT Jaipur, organized by AlgoUniversity.
- Secured position under **TOP-25** at **GeekForGeeks** Rankings at Institute Level.
- Secured **Global rank 46** in Codechef starters 123.
- Secured **Global rank 117** in Codechef starters 124.
- Secured **Global rank 703** in GFG weekly coding contest 130.