

Aryan Tyagi

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Summary

Backend-focused software engineer with hands-on experience building Spring Boot microservices, JWT-secured APIs, and scalable full-stack applications.

Education

Post Graduation Diploma in Advanced Computing

Center for Development of Advanced Computing, Pune

August 2025 – February 2026

B.Tech in Computer Science and Engineering

ABES Engineering College, Ghaziabad

October 2021 – May 2025

Secondary and Higher Secondary Education

City Vocational Public School, Meerut

2018, 2020

Experience

Investek

Summer Internship

July 2024 – August 2024

Gurugram, India

- Built a stock price forecasting application using Facebook Prophet on **20 years of Yahoo Finance data**, enabling **1–4 year predictions** with interactive trend visualization and CSV exports.
- Evaluated forecasting performance using **RMSE** and implemented efficient data fetching and caching logic to reduce repeated API calls and improve response time.

Projects

Online Quiz Platform | Spring Boot, Spring Cloud, Microservices, React

(link)

- Designed and implemented a microservices-based quiz platform with separate Auth, Quiz, and Attempt services using Spring Boot and Eureka, with JWT-based authentication and role-based authorization enforced at the API Gateway level.
- Designed relational schemas in PostgreSQL for quizzes, questions, attempts, and users, enabling service discovery, centralized routing, and inter-service communication via REST APIs.

E-learning App | React, Node.js, Razorpay API, JWT

(link)

- Built a full-stack e-learning platform using React (Vite) and Node.js for course management and user authentication.
- Integrated Razorpay for secure payments and implemented JWT-based authentication with admin-level access controls.

Realtime Code Editor | ReactJS, NodeJS, WebSockets

(link)

- Developed a real-time collaborative code editor enabling live, multi-user code sharing using WebSockets.
- Implemented synchronized editing to support pair programming within a responsive web interface.

Technical Skills

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

Backend Technologies: Spring Boot, Spring Security, JWT, REST APIs, Microservices

Frontend & Runtime: React.js, Node.js

Developer Tools: Git, GitHub, Postman, IntelliJ IDEA, VS Code

Databases: PostgreSQL, MySQL, MongoDB

DevOps: Docker (containerized local microservices), Linux, AWS (EC2, S3 – foundational), GCP

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, MVC Architecture, Software Development Methodologies

Achievements

- GATE CS 2025 Qualified
- Codechef Highest Rating 1526