

RISHABH CHAUDHARY

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About

Software engineer with expertise in Java and Spring Boot, focused on building scalable systems; developed microservices serving over 250K daily requests while boosting throughput by 35%. Achievements include leading the migration to a microservices architecture that reduced code complexity by 45% and automating deployments with Jenkins on AWS EC2, cutting release times by 60%. Recognized for contributions during tenure at ICICI Lombard.

Education

Bachelor of Technology

IIT Kanpur '23

Technical Skills

Languages: Java, C#, C, C++, Python, JavaScript, HTML5, CSS3

Frameworks & Tools: Spring Boot, Angular, Spring Data JPA, Jenkins, AWS (EC2)

Technologies Libraries: PostgreSQL, SQLite, Multithreading, Bootstrap, jQuery, Redis, Redis Caching

Experience

ICICI Lombard

Aug 2023 – Jul 2024

Software Engineer

- Designed and developed robust **RESTful APIs** using **Java** and **Spring Boot**, supporting over **250K+ daily requests** with **1.8× faster throughput**, **99.5% uptime**, and **25% latency reduction**.
- Integrated **Redis caching** layer to offload frequent read-heavy operations, improving system load-bearing capacity by **40%** and reducing average response times.
- Engineered **multithreaded** processing pipelines utilizing **Thread**, **Runnable**, and **ExecutorService APIs**, enhancing system concurrency and increasing overall throughput by **35%**.
- Architected and implemented **Spring Boot-based microservices**, enabling resource-efficient distributed deployments with **25%** improved utilization and easier maintenance across services.
- Conducted **Application Security Lifecycle (ASLC)** checks across 6 production environments, ensuring secure communication from API to UI through **end-to-end encryption** and thorough vulnerability testing.
- Optimized **SQL database** operations using **Spring Data JPA (Entity Framework equivalent)**, achieving a **99%** query success rate and reducing data fetch latency by 40% for real-time UI updates.
- Automated **AWS EC2** deployments via **Jenkins CI/CD** pipelines, reducing release cycle time by **60%** and maintaining a **99.9%** success rate across production releases.
- Led migration from legacy monolithic architecture to clean microservices architecture, resulting in **45% lower code complexity**, **60% higher test coverage**, and **50% reduction in post-release defects**.
- Spearheaded **Angular-based front-end development** for web portals supporting various insurance policies, reducing page load times by **42%** and increasing user engagement by **37%**.

C3iHub Cyber Security IIT Kanpur

Aug 2021 – Jul 2022

Intern

- Took initiative to design and implement a Python-based analytics tool to track social media engagement on cybersecurity campaigns, enabling data-driven content strategy and improving audience interaction metrics.
- Collaborated with content and social media teams to present weekly insights and conducted walkthroughs to help non-technical team members understand and use the tool effectively for campaign planning.

Technical Projects

Future Stock Price Prediction

Jan 2021 – May 2021

Supervisor: Prof. Somesh Kumar Mathur, IIT Kanpur

- Reduced data dimensionality using Principal Component Analysis (PCA), which refined Artificial Neural Network (ANN) training time by 15% and enhanced the accuracy of stock price predictions.
- Implemented Fine-tuning of the model using grid search, optimizing hyperparameters like activation function and learning rate; decreasing Root Mean Squared Error to 1.348 and MAPE to 0.713.