

Rishabh Jain

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PROFESSIONAL SUMMARY

Versatile Software Development Engineer with hands-on experience in full-stack web development using Java, Spring MVC, PostgreSQL, and RESTful APIs. Proficient in building scalable backend systems, multithreaded applications, and real-time data crawlers with high performance and low latency. Strong foundation in object-oriented programming, database optimization, and frontend technologies like HTML, CSS, and JavaScript. Successfully developed and tested end-to-end projects including Twitter Clone, Hospital Record Scraper, and E-commerce Recommendation Systems. Adept at writing clean, maintainable code, deploying services, and collaborating in fast-paced development environments.

EDUCATION

National Institute Of Technology, Trichy, India

CGPA:7.62

B.Tech CSE, Expected June 2024 (Computer Science and Engineering)

WORK EXPERIENCE

Software Developer Intern, Coding Club India | 2.7 Lakh+ Followers on LinkedIn

- Developed responsive web interfaces using HTML, CSS, JavaScript, and Bootstrap supporting multi-device.
- Built backend modules using Java and Spring MVC to support scalable feature development.
- Designed and integrated RESTful APIs with optimized SQL queries, improving data retrieval performance.
- Conducted A/B testing on multiple UI flows, resulting in 30% higher engagement and 25% drop in bounce.

PROJECTS

Twitter Clone: Scalable Social Media Platform | HTML, CSS, Javascript, Postgres, Spring MVC

- Developed a full-stack tweet-sharing platform scalable to 1M+ users using Spring MVC and PostgreSQL.
- Implemented 10+ features including Login, Signup, Tweet Creation, Follow with complete backend logic.
- Optimized read queries in PostgreSQL to respond under 10ms; backend API latency under 50ms.
- Achieved 100% REST API test coverage using Postman and JUnit, ensuring robust backend performance.

Bollywood Movie Songs Downloader | Java, Spring MVC, Multithreading Crawling

- Implemented multithreaded crawling to achieve 50 times faster song downloads from target sources.
- Used Java HttpClient for stable connections, achieving a 95% download success rate.
- Handled large-scale song metadata extraction with minimal failure and optimized thread management.

Advanced Ecommerce Recommendation System | Python, NLP, BoW, TF-IDF, Word2Vec

- Engineered a content-based recommendation system with results within 100 milliseconds.
- Supercharged product recommendations on e-commerce platforms for 1 million products.
- Attained a remarkable 98% accuracy rate with NLP Models, including Bag of Words and TF-IDF.
- Seamlessly integrated the Amazon product advertising API for enhanced functionality.

Handwritten Digit Recognition | Python, ML, KNN, AI, Numpy, Tensorflow

- Achieved 95% classification accuracy on MNIST dataset using optimized K-Nearest Neighbors algorithm.
- Reduced prediction latency by 25% through efficient vectorized operations and NumPy optimizations.
- Enhanced model performance via GridSearchCV and K-fold cross-validation for hyperparameter tuning.
- Built a scalable machine learning pipeline with 30% faster processing on large handwritten image datasets.

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, SQL, HTML, CSS, C++, Bash, Shell Scripting
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Backend Frameworks:** Spring MVC
- **Machine Learning:** Supervised Learning (Regression, Classification), Cross-Validation, Predictive Modeling
- **Data Analytics:** SQL Queries, Data Cleaning, Feature Engineering, Visualization (Matplotlib, Pandas)
- **Tools:** Git, Postman, JUnit, Jupyter, VS Code, IntelliJ, Eclipse
- **Cloud Platforms:** AWS (S3, EC2), Google Cloud

CERTIFICATIONS

Java Full Stack Development with Spring MVC – Coding Club India (2.7 Lakh+ Followers)

HONORS AND AWARDS

- **Solved 500+ algorithmic problems** across LeetCode, CodeChef, HackerRank, InterviewBit, and SPOJ.