# Rohit Karumanchi

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## PROFESSIONAL SUMMARY:

- I am an experienced Full-Stack Software Engineer with over 4+ years of expertise in designing and building scalable distributed systems, cloud-native architectures, and high-performance backend services. I have experience with leading projects which modernize legacy workflows, executing large-scale data migrations, and delivering high-availability solutions on AWS Cloud Infrastructure using services like Lambda, S3, DynamoDB, and RDS alongside modern front-end frameworks like React and Node.js. I am highly skilled in data structures, problem-solving, and developing RESTful web services and microservices architectures optimized for performance, reliability, and maintainability. My experience includes designing CI/CD pipeline integrations, implementing event-driven architectures, and continuously improving system resiliency, observability, and scalability. Working in Agile teams, I collaborated effectively with cross-functional teams to deliver operational excellence, and continuous improvement practices. As a mentor, I have guided junior developers, fostering a collaborative, knowledge-sharing environment. Demonstrated success in migrating legacy systems to scalable solutions, automating business processes, and enhancing team collaboration.

## TECHNICAL SKILLS:

- **Programming Languages:** Java, TypeScript, JavaScript, Python (Pandas, NumPy), SQL, CSS, HTML.
- **Frameworks**: Spring Boot, Node.js, React, Angular.
- **Cloud Technologies**: AWS (Lambda, RDS, S3, DynamoDB, SQS, SES ,Elastic search), familiarity with cloud infrastructure principles.
- **Databases**: RDS, Redshift, DynamoDB, Oracle, PostgreSQL, MySQL.
- **Tools**: Jupyter Notebooks, Tableau, Selenium, IntelliJ, Eclipse, GIT, Kibana, Docker , Kubernetes, Jenkins,cursor.

## PROFESSIONAL EXPERIENCE:

- **Neiman Marcus-(Amazon-Acquired) Dallas** **June 23 – Present**
- **Software Engineer**

**Responsibilities:**

- Architected and deployed a scalable, real-time data platform consolidating orders, shipments, and fraud datasets into a unified Snowflake Lakehouse on Azure and AWS, enabling sourcing, fulfillment, and fraud analytics across Neiman Marcus and Bergdorf Goodman
- Designed and developed scalable backend services using Java, Spring Boot, and AWS (Lambda, RDS, SQS, SES), improving system reliability, reducing operational overhead, and ensuring high performance for business-critical workflows
- Conducted end-to-end analysis of returned orders in Excel and SQL, presenting the financial impact and operational insights to executives through dashboards, identifying root causes, and developing strategies to minimize returns Analyzed in-store returns due to damage or dissatisfaction for Neiman Marcus and Bergdorf Goodman using SQL,quickly creating dashboards during peak sales periods to highlight significant causes and financial impacts
- Designed and shipped an AI Merchandising Copilot Fast API Lang Graph pgvector) that ingests vendor docs and routes tasks to human reviewers cut item-setup time **65% and lowered errors 14%→3%** while holding

p50 latency <800 ms

- Designed and implemented a robust notification system within a content management platform (CMS) using Java, AWS SES, SQS, SNS, enabling automated email alerts for 10+ business-critical workflows, reducing approval cycle time by 35%, and increasing operational transparency across multiple teams
- Built ML pipelines processing 100GB+ daily data for real-time inventory predictions using Python, TensorFlow, and AWS SageMaker Delivered AI-driven supply chain optimization solution generating **$5M+** annual cost savings for enterprise clients
- Engineered search and analytics layers with Elasticsearch and Cassandra to power near real-time lookups for fraud and order datasets.
- **Delivered $1.5M savings** in shipping operations, improved associate efficiency by **250%,** and reduced manual analytics workload by **40%**
- Re-architected legacy UI systems into modern React TypeScript applications, optimizing user experience and application performance for large datasets; reduced page load times by up to 60% and streamlined high-traffic data views
- Actively mentored junior developers, advocating for clean code principles, backend design best practices, and cloud-native development strategies, contributing to a stronger, knowledge-sharing team culture

- **NNR GLOBAL LOGISTICS, DALLAS** March 22 – June ’23
- **Software Engineer**
- Developed Python Object-Oriented Program (OOPs) for quality, logging, monitoring, and debugging
- Built serverless backend APIs using Typescript language and AWS Lambda, ensuring rapid response times and high availability
- Designed and developed Java-based internal tools to automate data validation, reporting, and business process workflows, resulting in a 40% reduction in manual processing time and improved data accuracy, which streamlined client deliverables and reduced operational backlogs.
- Automated repetitive QA processes using Selenium, which cut manual testing efforts by over 50%, minimized human error in validation steps, and enabled faster and more reliable regression testing cycles.Created and executed User Acceptance Testing (UAT) plans by working closely with business stakeholders, leading to early detection of functional issues and higher-quality software releases, with fewer post-deployment defects.
- Contributed to regression testing, coordinated release cycles, and participated in post-deployment enhancement reviews, which helped shorten deployment timelines and improve system reliability, resulting in greater client satisfaction and smoother project handoffs

## Education

- University of Texas at Dallas 2021-2022
  Masters in computer/Information science
  **Relevant Courses**: Analysis of Algorithms, Database Systems, Machine Learning for Data Science, Deep Learning, Artificial Intelligence, Web Technologies