Mohit Jain

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EDUCATION

Master of Science in Software Engineering Systems *May. 2026 (Expected)*
Northeastern University - 3.8/4.0 *Boston, MA*
Relevant Courses: Web App Design & User Experience Engineering, Database Management and Design, Enterprise Software Design, Network Structures and Cloud Computing, Generative AI

Bachelor of Engineering in Mechanical Engineering *Jun. 2021*
Institute of Engineering and Technology, Devi Ahilya Vishwavidhyalaya - 8.6/10 *Indore, India*

WORK EXPERIENCE

Software Development Engineer Intern *Feb 2025 – Aug 2025*
TekLink International (HGS) *Boston, MA*
- Engineered full-stack AML compliance platform using React/TypeScript and FastAPI with RESTful architecture, deploying RAG-based document analysis system that reduced analyst review time by 30%
- Built enterprise RAG chatbot with React frontend and Python backend, integrating semantic search across documents using OpenAI embeddings and Pinecone vector database
- Established CI/CD pipelines with GitHub Actions for automated testing and deployment, implementing pre-production validation gates that run comprehensive test suites (Pytest, Jest) on every commit, achieving 85% code coverage
- Developed file validation application with agentic AI integration, designing rule-based error detection system with automated remediation suggestions
- Established development standards including API design patterns, authentication/authorization best practices, and CI/CD workflows, accelerating onboarding for new projects

Application Development Analyst *Sept. 2022 – Dec. 2023*
Accenture *Mumbai, India*
- Designed and implemented Java 8/Spring Boot microservices using Circuit Breaker and API Gateway patterns, improving system scalability and reducing average response time
- Designed data extraction pipelines to process JSON payloads across 40+ insurance documents with 95% accuracy
- Integrated Apache Kafka for event-driven architecture enabling real-time streaming between microservices, while optimizing AWS infrastructure (EC2, S3) to handle 10,000+ daily transactions with 99.9% uptime
- Conducted technical training sessions for 5+ new team members on EIS workflows

Application Development Associate *Jun. 2021 – Aug 2022*
Accenture *Mumbai, India*
- Built full-stack web applications with React, Next.js, Node.js, and Express, focusing on scalable architecture and optimized performance across frontend and backend components
- Established comprehensive error handling and logging strategies across application layers, reducing production incidents
- Automated JSON payload validation routines using Python scripts to verify data integrity, increasing data accuracy by 80%
- Created a Selenium-based UI automation framework to generate test data, cutting manual data creation time by 50%

SKILLS

Core Competencies: Data Structures & Algorithms, System Design & Architecture, Object-Oriented Programming, Distributed Systems, Microservices Architecture, Full-Stack Development
Programming Languages & Frameworks: JavaScript, TypeScript, Python, Java, SQL, HTML/CSS, React.js, Redux, Node.js, Express.js, Spring Boot, FastAPI
Databases & Caching: MySQL, PostgreSQL, Oracle SQL, MongoDB, Pinecone, BigQuery, Snowflake
Cloud & DevOps: AWS (EC2, S3, RDS, Lambda), GCP, Azure, Docker, Terraform, Packer, Git, GitHub Actions, Jenkins
Tools & Practices: RESTful APIs, Apache Kafka, Agile/Scrum, CI/CD, Selenium, Jest, JUnit, Pytest, Bash/Shell Scripting

PROJECTS

Cloud Native AWS Automation [GitHub] **(AWS, Terraform, GitHub Actions, Bash, PowerShell)** *Oct. 2025*
- Engineered cloud-native API infrastructure with auto-scaling EC2 instances, Application Load Balancer, and RDS PostgreSQL; Implemented complete CI/CD pipeline using Terraform for IaC, Packer for custom AMI builds, and GitHub Actions for automated testing and deployment, reducing deployment cycles from 5 hours to 45 minutes

Clinical Trial Data Pipeline [GitHub] **(RAG, Python, Pinecone, OpenAI, PostgreSQL)** *Feb. 2025*
- Architected an ETL pipeline extracting data from EDGAR API with RAG architecture using Pinecone vector database and OpenAI embeddings, achieving 90% accuracy in extracting structured clinical trial data from unstructured documents into PostgreSQL

Cloud Resource Management System [GitHub] **(MySQL, Spring Boot, Java, Hibernate)** *Dec. 2024*
- Developed a multi-tenant cloud resource management platform using Java, Spring Boot, Hibernate ORM, and Oracle SQL, implementing role-based access control, automated billing with PDF generation, and RESTful APIs for resource allocation and usage tracking with DAO pattern and MVC architecture

Sharebite – Food-Sharing Web App [GitHub] **(MongoDB, Express, React, Node)** *Apr. 2024*
- Built a Progressive Web App using React 18, TypeScript, Redux Toolkit, and Material-UI with Firebase integration, enabling food providers to post surplus food availability, manage donations, track deliveries, and generate certificates, featuring real-time updates and analytics dashboards with Recharts