Mohit Jain

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EDUCATION

Master of Science in Software Engineering Systems *May. 2026*
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 & AI Engineer Intern *Feb 2025 – Aug 2025*
Hinduja Global Solutions (HGS) *Boston, MA*
- Engineered full-stack AML compliance platform using Javascript, React, Next.js 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 1,000+ documents using OpenAI embeddings and Pinecone vector database
- Architected and deployed end-to-end data pipelines in Azure Data Factory with dynamic SQL and Logic Apps to crawl, process, and synthesize data, automating 200 weekly report deliveries and eliminating 40–50 hours of manual effort per week
- Built autonomous validation system using LangChain agents for multi-step error detection and correction, reducing file validation time from 2 hours to 15 minutes per batch
- Established CI/CD pipelines with GitHub Actions for automated testing and containerized deployment using Docker and Kubernetes, implementing pre-production validation gates with comprehensive test suites (Pytest, Jest) achieving 85% code coverage

Application Development Analyst *Sept. 2022 – Dec. 2023*
Accenture *Mumbai, India*
- Developed insurance domain microservices (policy, claims) using Java 8/Spring Boot with Kafka for asynchronous messaging, integrating OpenL Tablets rules engine to externalize configurable business logic
- Developed data pipeline consuming 40+ insurance document types from EIS APIs and publishing to Kafka topics
- Deployed microservices on AWS with auto-scaling EC2 instances, S3 storage, and RDS, implementing CloudWatch monitoring to maintain 99.9% uptime
- Automated JSON payload validation routines using Python scripts to verify data integrity, increasing accuracy to 95%
- Implemented unit and integration tests using JUnit and Mockito for insurance microservices, achieving 80% code coverage

Application Development Associate *Jun. 2021 – Aug 2022*
Accenture *Mumbai, India*
- Built full-stack web applications with React, Next.js, Node.js, and Express, implementing code-splitting and lazy loading to improve page load performance and reduce API response latency
- Established comprehensive error handling and logging strategies across application layers, reducing production incidents by 15% through proactive debugging and root cause analysis
- Created a Selenium-based UI automation framework to generate test data, cutting manual data creation time by 50%

SKILLS

Core Competencies: Full-Stack Development, LLM Integration, RAG (Retrieval-Augmented Generation), Agentic AI, Prompt Engineering, System Design & Architecture
Programming Languages & Frameworks: JavaScript, TypeScript, Python, Java, SQL, HTML/CSS, React.js, Redux, React Native, Node.js, Express.js, Spring Boot, FastAPI, LangChain
Databases: MySQL, PostgreSQL, Oracle SQL, MongoDB, Pinecone, BigQuery, Snowflake, Pinecone
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, Node, Express)** *Dec. 2025*
- Engineered cloud-native API infrastructure with auto-scaling EC2 instances, Application Load Balancer, and Aurora RDS; 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

George Soros Investment Chatbot [Link] [Github] **(Streamlit, Transformers, Langchain, LLM APIs)** *Dec. 2025*
- Built a George Soros investment advisor chatbot using custom TensorFlow transformer(2-layer encoder-decoder) and RAG pipeline with Pinecone vector search and Groq Llama3 API, delivering responses with multi-source citations through a Streamlit interface

Clinical Trial Data Pipeline [GitHub] **(RAG, Python, Pinecone, OpenAI, PostgreSQL)** *Feb. 2025*
- Built a comprehensive clinical trial data extraction pipeline combining API-based ingestion from structured sources and RAG-powered extraction (Pinecone + OpenAI embeddings) from unstructured documents (8-K/10-K filings, presentations, company websites), achieving 90% accuracy in consolidating trial results into PostgreSQL

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