

Saurabh Srivastava

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EDUCATION

Northeastern University

Boston, USA

Master of Science in Information Systems(3.82/4.0)

December, 2025

Relevant Coursework: Network Structures and Cloud Computing, Web Design and Development, Gen AI

Manipal Institute of Technology

Manipal, India

Bachelor of Technology

August, 2018

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, HTML, CSS, ReactJS, NodeJS, ExpressJS, Spring Boot, FastAPI

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda, IAM), Docker, Terraform, CloudWatch, CI/CD, Load Balancing, Auto Scaling, Apache Kafka

Databases: MySQL, PostgreSQL, Oracle SQL, MongoDB, Elasticsearch, Kibana, Redis

Tools and Frameworks : REST APIs, Swagger, JWT, OAuth2, Prometheus, n8n, GPT API, TensorFlow, Postman

WORK EXPERIENCE

Software Engineer Intern

Software Velocity Corporation, Boston, USA

January 2025 - July 2025

- Built automated crash dump analysis system processing 10,000+ daily failures using AWS S3, Lambda, and ML; reduced per-incident debugging from hours to minutes, saving 100+ engineering hours/month
- Implemented robust infrastructure automation with Terraform Cloud and GitHub Actions, achieving 99.5% deployment success rate with automated rollbacks across multi-region environments and blue-green deployment strategies for zero-downtime releases
- Spearheaded testing standards adoption across engineering team; implemented pytest framework achieving 95% code coverage and drove team-wide adoption, reducing production incidents by 40% within 6 months
- Built n8n workflow alerting system that fetches MCP server logs and generates intelligent debugging recommendations, reducing manual inspection time by 80% through automated log parsing and pattern recognition algorithms
- Engineered global sequence system to resolve timestamp collisions during high-frequency object creation, ensuring data integrity across daily object initializations in distributed systems

Software Engineer

SIDHA, India

October 2021 - July 2023

- Developed REST API facilitating front-end and climate data interaction using NodeJS, collaborating with cross-functional teams to ensure seamless integration with comprehensive API documentation, authentication middleware, and error handling mechanisms
- Automated climate data extraction using BeautifulSoup, processing 50,000+ data points monthly with 80% accuracy, eliminating 20 hours of manual work per week through robust data validation pipelines and automated retry mechanisms for failed requests
- Automated data ingestion process using Pandas and scheduled monthly data refresh using CRON, eliminating manual data entry jobs and improving data reliability with comprehensive ETL pipelines, data quality checks, and monitoring dashboards for process tracking
- Designed intuitive dashboards for 50+ internal employees using Tableau to monitor KPIs, leading training sessions and gathering user feedback to improve dashboard usability with interactive visualizations, real-time data updates, and performance optimization techniques

ACADEMIC PROJECTS

Community Portal for Health Camps:

- Developed scalable healthcare platform using React.js frontend and Node.js backend with RESTful API architecture, implementing responsive UI/UX features for event management, donation processing, and user authentication in underserved communities
- Built real-time notification microservice using MailGun API integration, JWT-based authentication middleware, and WebSocket connections for instant push notifications, boosting community engagement by implementing event-driven architecture

Technology: Typescript, Javascript, HTML, CSS, SCSS, ReactJs, MongoDB, NodeJs, ExpressJs, Swagger, REST API, Mail Gun API, JWT [Demo](#)

Cloud Native Web Application Project

- Developed secure, cloud-native user management system using NodeJS and AWS services with automated CI/CD pipelines for zero-downtime deployments
- Engineered high availability through load balancing across 3-5 instances in multiple availability zones, ensuring 99.9% uptime
- Achieved efficient resource management and reduced deployment time from hours to minutes through infrastructure automation using Terraform and auto-scaling policies

Technologies: AWS, Node.js, Terraform, CI/CD, GitHub Actions, Auto Scaling, Load Balancing, RDS, S3, CloudWatch, SNS, Lambda, Route 53, Packer, KMS, SSL/TLS, Zero-downtime Deployment [Github](#)

AppleBee - AI-Powered Investment Analysis Platform(Python, Transformer, LLaMA):

- Built custom Transformer from scratch (8-head self-attention, positional encoding, Seq2Seq) trained on 1,153 financial QA pairs achieving 99.69% accuracy; integrated LLaMA 3.1 70B via Groq API for hybrid LLM architecture
- Deployed production platform with real-time stock analysis, 12 automated Buffett investment criteria, and dual AI chatbot comparing foundation models vs. domain-fine-tuned approaches

Technology: Python, TensorFlow, Transformer, Multi-Head Attention, LLaMA 3.1, Groq API, Streamlit, yfinance [Live](#)