

# Saurabh Srivastava

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## EDUCATION

Northeastern University

Master of Science in Information Systems(3.82/4.0)

Boston, USA

December, 2025

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

Manipal Institute of Technology

Bachelor of Technology

Manipal, India

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](#)