Saurabh Srivastava

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TECHNICAL SKILLS

Languages:	**Python**, **Java**, **C**, **C++**, **C#**, **Go**, JavaScript, TypeScript, SQL
Frameworks & Libraries:	**FastAPI**, **React**, Angular, **Node.js**, Express.js, **.NET**, Spring Boot, Pytest, TensorFlow, Spark, Streamlit
Cloud & DevOps:	**AWS** (EC2, S3, RDS, Lambda), **Docker**, Kubernetes, Terraform, **CI/CD**, GitHub Actions, Kafka, Azure, Grafana, **Linux/Ubuntu**
Data & Protocols:	**PostgreSQL**, **MongoDB**, MySQL, Redis, Elasticsearch, REST APIs, gRPC, TCP/IP, HTTP/HTTPS, TLS/SSL, DNS, WebSockets, JWT, OAuth2, Git
Architecture & Practices:	**Distributed Systems**, **Microservices**, Multithreading/Concurrency, Low-Latency Design, TDD, **CI/CD**, Agile

WORK EXPERIENCE

Software Engineer — **Remote**

Humanitarians AI – Jobsekr Platform — *February 2026 - Present*

- Building a large-scale, **AWS-hosted** job ingestion platform with **Docker**-containerized Python scrapers and **microservices**-based CI/CD pipelines across **25+ data connectors** (ATS platforms, job boards, and career pages), processing thousands of listings daily through **concurrent ETL orchestration** into a centralized MongoDB database with automated scheduling and error handling

Software Engineer Intern — **Boston, USA**

Stealth AI Startup (Software Velocity Corp) — *January 2025 - July 2025*

- Automated development workflows and release pipelines with Terraform Cloud and GitHub Actions, achieving **99.5%** deployment success rate with automated rollbacks and blue-green deployment for zero-downtime releases
- Shipped an **ML-powered crash analysis tool** to production, processing **10,000+** daily failures using AWS S3, Lambda, and classification models, adopted by the engineering team, saving **100+ hours/month** of manual debugging
- Drove **95%** code coverage adoption by implementing a pytest-based testing framework with CI integration, reducing production incidents by **40%** within 6 months
- Built a **Java/Spring Boot API gateway microservice** to route, authenticate, and rate-limit requests across internal services, handling concurrent connections via thread pools and reducing inter-service latency
- Engineered a **thread-safe** global sequence system to resolve timestamp collisions during **high-frequency** object creation, ensuring data integrity across daily object initializations in **distributed systems**

Software Engineer — **India**

SIDHA — *October 2021 - July 2023*

- Architected and shipped **low-latency** REST APIs serving climate data to multiple frontend clients using **C#/.NET** and Node.js, partnering with the frontend team to define API contracts via Swagger documentation with authentication middleware and structured error handling
- Built automated data extraction and ETL pipelines processing **50,000+** data points monthly using Python (BeautifulSoup, Pandas), with CRON scheduling, validation checks, and retry logic, eliminating **20 hours/week** of manual work
- Designed Tableau dashboards for **50+** internal users to monitor KPIs, gathering stakeholder feedback to iterate on usability and driving adoption through hands-on training sessions

Project Engineer — **India**

SIDHA — *June 2019 - September 2021*

- Designed and built internal reporting dashboards using **React** and **MongoDB** to track project milestones, resource allocation, and budget utilization across multiple infrastructure projects, reducing manual status reporting by **60%**
- Automated weekly project data aggregation using **Python** scripts and **Pandas**, consolidating inputs from 10+ field teams into centralized reports and visualizations for senior leadership

PROJECTS

- **Community Portal for Health Camps** Demo:
  Shipped a full-stack healthcare platform with **TypeScript**, **React** frontend and **Node.js**/Express backend on **MongoDB**, featuring event management, donation processing, JWT-based authentication, and a real-time **WebSocket** notification **microservice** with event-driven architecture
- **Dynamic Memory Allocator** Github:
  Devised a malloc-like dynamic storage allocator in **C**, implementing explicit free lists, boundary tag coalescing, and footer elimination to achieve **78%+** memory utilization and **30,000+ KOPS** throughput — balancing allocation speed with minimal fragmentation
- **AppleBee – AI-Powered Investment Analysis Platform** Live:
  Built and deployed a **Python/TensorFlow** product integrating a custom Transformer model with **LLaMA 3.1 70B** via Groq API on **Streamlit**, delivering real-time stock analysis against 12 automated investment criteria with a dual-model chatbot experience
- **Raft Consensus Algorithm – Distributed Systems** Github:
  Implemented the Raft consensus algorithm in **Go** with **concurrent goroutines** and mutex-based synchronization for managing leader election, log replication, and fault tolerance, handling node failures and network partitions across a **distributed** cluster

EDUCATION

Northeastern University — **Boston, USA**

Master of Science in Information Systems(3.8/4.0) — *September 2023 - December 2025*

Relevant Coursework: Data Structures and Algorithms, Networks and Cloud Computing, Web Dev, Generative AI

Manipal Institute of Technology — **Manipal, India**

Bachelor of Technology — *August 2014 - May 2018*