ANSHUMAN RAINA

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Education

Northeastern University	**Jan. 2024 – June 2025 (Expected)**
Master of Science in Computer Science (GPA : 3.8/4.0)	*Boston, Massachusetts*
Guru Gobind Singh Indraprastha University	**Sep. 2015 – May 2019**
Bachelor of Technology in Computer Science Engineering (CGPA 8.6/10)	*New Delhi, India*

Technical Skills

Languages : Java, Go(Golang), Python, R, C#, C++, Javascript, TypeScript, SQL, Objective-C, Kotlin, Groovy, Matlab

Frameworks: Hibernate, Guice, gRPC, Robot framework, RESTful, Kafka, Salesforce API, React, RabbitMQ, Scala, Flask, Spring, Spring Boot, Node, Angular, GORM, Zookeeper, Express.js, FastAPI

Cloud Technologies and Tools: Git, Docker, Kubernetes, Maven, JIRA, Jenkins, PowerBI, GCP, AWS, Github Actions, High Performance Cluster (HPC)

Database, DevOps and OS: Oracle, MySQL, MongoDB, Linux (Ubuntu, CentOS), Elasticsearch, Prometheus, Grafana

Experience

Khoury Research Apprenticeship   **Sep 2024 – Current**
Khoury College of Computer Sciences, Northeastern University   *Boston, USA*
- Developed a high-impact **benchmarking framework** using GitHub Actions, ensuring accurate validation of MSStats, an **open source development** library across 22 proteomics datasets.
- Built a scalable **CI/CD pipeline** for continuous monitoring and quality assurance of code changes. Optimized the pipeline to **cut costs** by 100% by adopting Northeastern's in-house HPC without compromising performance.
- Identified a **20% False Discovery Rate (FDR)** in key datasets, significantly higher than the expected 5%, leading to critical improvements in statistical accuracy.

Graduate Teaching Assistant   **May 2024 – Current**
Khoury College of Computer Sciences, Northeastern University   *Boston, USA*
- Guided **500+** students in Java programming with a focus on data structures and 10+ **Design Patterns**, enhancing code review expertise and build strong communication skills and interpersonal skills, **problem-solving** and attention to detail.

Team Lead, Software Engineer - II   **May 2022 – Sep 2023**
Techmojo Solutions Pvt. Ltd.   *Hyderabad, IN*
- Designed and implemented 10+ **Golang** microservices to address user stories of an *iGaming fintech* platform, leveraging **Docker** and **Kubernetes**, resulting in seamless vertical and horizontal scaling.
- Analyzed critical performance memory leaks by auditing **Prometheus logs**, implemented **Redis caching** and resolved bottlenecks and vulnerabilities, achieving **$10,000 cost savings** post-go-live.
- Collaborated with cross-functional teams in Agile Scrum teams to integrate third-party APIs, enhance code quality through reviews, and lead technical hiring, successfully onboarding 12 developers to boost team productivity.

Software Developer   **June 2019 – May 2022**
ION Group   *New Delhi, IN*
- Engineered a **real-time trade processing system** leveraging **Java**, **Kotlin**, and **C#**, cutting processing time by 30% across US and EU financial markets, streamlining **back-office trading compliance** operations.
- Revamped release pipelines in **Jenkins** by optimizing enterprise software release, boosting efficiency by 15% and accelerating deployment cycles to enhance business performance.
- Redesigned trade manager services by eliminating redundant dependencies, enhancing performance by 70%, saving **$15,000** annually, and resolving critical P0/P1 issues within 2 hours, driving a 25% increase in customer satisfaction.
- Pioneered the creation of a **business keyword library** to enhance component transformation reliability, reducing runtime by 10% and improving automation robustness with **test-driven development**.

Projects

Travel Itinerary Planner | *MongoDB, React.js, Node.js, NoSQL, XML, HTML, CSS*   **Jan 2025**
- Performed full-stack development with the MERN stack, with a **Streamlit** and **Flask** based Prototype GUI.
- Architected **14+ entities and 40+ REST APIs**, optimizing performance with triggers and procedures.

Finvest: Financial Education Platform | *Java, Java Swing GUI, SQLite*   **Jan 2024**
- Educated users on investment strategies, including Dollar Cost Averaging, to enhance financial decision-making.
- Supported Alphavantage **RESTful API** to retrieve real-time data, enabling cross-platform support to access stock names and tickers.