

# Aditya Chandra

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## EDUCATION

### University of Colorado Boulder

Master of Science in Computer Science - GPA: 3.94/4.0

### Ramaiah Institute of Technology

Bachelor of Engineering in Information Science - GPA: 4.0/4.0

Boulder, USA

December 2024

Bangalore, India

June 2019

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, SQL, JavaScript, C++, Go

**Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS), GCP, Docker, Kubernetes, Terraform, GitHub Actions

**Frameworks & Libraries:** Spring Boot, PyTorch, Flask, Kafka, Node.js, React, Next.js, Tailwind CSS

**Databases:** PostgreSQL, Oracle, MongoDB, Redis, DynamoDB, Elasticsearch

**Tools:** Git, VS Code, Eclipse, Postman, Jira, Oracle SQL Developer

## WORK EXPERIENCE

### GE Transportation, a Wabtec Company

Software Engineer

Bangalore, India

August 2019 - July 2022

- Spearheaded the modernization of a legacy application by decoupling the monolith into 5 microservices, enhancing maintainability and **boosting performance by 30%**.
- Fortified application security by implementing TLS encryption for Oracle and MongoDB and eliminating 30+ OWASP vulnerabilities, **cutting data breach risks by 40%**.
- Optimized the ETL data pipeline by refining Elasticsearch queries, reducing wildcard searches, and removing redundant aggregations, **improving aggregation speed by 20%**.
- Led end-to-end feature development as primary contributor, revamping database schema, UI, and backend to achieve a **15% performance boost**, earning the *2021 Q1 Pursuing Excellence Award*.
- Collaborated with cross-functional teams across time zones to implement SSO-based access to our application suite, enhancing security and streamlining access for over **500 users across 10 organizations**.

### GE Transportation, a Wabtec Company

Software Engineer Intern

Bangalore, India

February 2019 - July 2019

- **Accelerated dashboard performance by 33%** by migrating to Reactive Microservices architecture, reducing latency and enabling real-time processing of high-volume data streams.
- **Reduced database bloat by 25%** with a scheduled cleanup script for deduplication and added data integrity checks for future updates, resulting in **15% improvement** in QA efficiency and faster testing cycles.
- **Boosted team productivity by 40%** by configuring Docker with soft volumes on Windows, resolving persistent mounting issues, and **eliminating frequent development downtimes**.

## PROJECTS

### Hyperparameter Tuning as a Service | React, Kafka, Docker, Kubernetes, PyTorch | [Link](#)

December 2023

- Developed a cloud-based application for automated hyperparameter tuning, streamlining model development to support Hugging Face datasets and pre-trained models, **boosting scalability and efficiency**.
- **Reduced training time by 32%** through parallel grid search, **enabling faster model selection** and facilitating rapid experimentation across domains like healthcare, finance, and education.

### Arxiv Insanity | React, Go, MongoDB, Neo4j, Redis, Docker, Kubernetes, Terraform | [Link](#)

May 2023

- Developed a scalable cloud-based application to **streamline literature review**, enabling effortless exploration of related academic papers.
- Automated citation extraction using the semantic scholar API and **visualized intricate paper connections**, enabling more efficient and intuitive research exploration.

## ACHIEVEMENTS

- **Certified - AWS Developer Associate (DVA-C02)** Expected: November 2024
- **Co-authored** – “Media Framing through the Lens of Event-Centric Narratives”, accepted to the 6th Workshop on Narrative Understanding, co-located with EMNLP 2024 October 2024
- **3rd Place** - AWS Hackathon, University of Colorado Boulder CS Department February 2024
- **1st Place** - Network and Logistics Virtual Hackathon, Wabtec Corporation November 2021
- **Co-authored** - “Study on Unsupervised Statistical Machine Translation for Backtranslation” published in “Recent Advances in Natural Language Processing” September 2019