

Harsha Vardhan Gupta Gattu

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EDUCATION

Portland State University

Master of Science in Computer Science

March 2023 - March 2025

GPA 3.9 / 4.0

Jawaharlal Nehru Technological University

Bachelor of Technology in Computer Science

June 2018 - April 2022

GPA 3.8 / 4.0

SKILLS

Programming: Core Java, Python, C++, SQL, PL/SQL, Bash, JavaScript.

Proficiencies: Algorithms and Data Structures, Agile Methodologies, REST API, Docker, Kubernetes, Apache Kafka, UNIX/Linux Systems, Relational Databases, JUnit, Design Patterns, SDLC, Containerization, DevOps, Maven.

Frameworks: Spring MVC, Spring Boot, JPA, ORM, Hibernate, Microservices

Tools & Platforms: AWS, GIT, Google Cloud Platform, ETL Pipelines, Shell Scripting, FastAPI, Jira, Distributed Systems.

CERTIFICATIONS

AWS Cloud Practitioner Certification

Completed a comprehensive course on AWS cloud services, covering core services, security, and architecture principles.

PROFESSIONAL EXPERIENCE

Accenture

September 2022 – February 2023

Software Developer

- Engineered FastAPI services to improve model accessibility for data analysts, reducing response time by 45%.
- Utilized Java, **Spring MVC**, **Spring Boot**, **Hibernate**, and **React** to enhance system modules, resulting in a 20% increase in user satisfaction and improved user engagement.
- Implemented **Docker** and managed **Kubernetes** following industry best practices, streamlining releases and improving scalability by 30%; automated testing and deployment with **CI/CD pipelines** and **Maven** for smooth, reliable delivery.
- Deployed real-time data streaming with **Apache Kafka** on **AWS EC2**, resolving challenges in data integration and accelerating processing speed by 40%.
- Designed and implemented **SOAP** services for legacy system integration, addressing compatibility issues and ensuring smooth data exchange.
- Utilized in **Jira** for project tracking and agile management, contributing to sprint planning and retrospectives to improve team efficiency.
- Collaborated with **cross-functional** teams to create visualizations for **SQL** query outputs, enhancing data interpretation and enabling stakeholders to make data-driven decisions, which reduced analysis time by 30%.

Infosys

October 2019– February 2022

Software Developer

- Developed database connection components for the "Talk to Your Data" feature, improving security compliance by 30%.
- Conducted quality assurance for models, improving reliability by 20%.
- Utilized **Tableau** to provide actionable data insights, supporting decision-making processes.
- Developed dynamic web components using **Angular** and **JSP**, enhancing user experience and interactivity.
- Led the development of a weather application using machine learning, integrating APIs for seamless data exchange.
- Optimized data retrieval using **PL/SQL** and Oracle, reducing query execution time by 40%.
- Automated database activities with **Shell scripting**, cutting downtime by 40%.

ACADEMIC PROJECTS

REAL TIME DATA PROCESSING AND VISUALIZATION PIPELINE

February 2024 - April 2024

- Designed and developed a high-throughput ETL pipeline, processing over 10 GB of data daily, utilizing Confluent Kafka for efficient real-time data ingestion and streaming.
- Extracted large datasets from the TRIMET Public Transportation API for immediate processing, enhancing data accessibility and usability.
- Orchestrated the ETL process, including data modeling, to handle over 300,000 breadcrumb records and 50,000 stop events daily, ensuring smooth extraction, transformation, and loading into a scalable Google Cloud storage solution.
- Implemented dynamic, real-time geographic visualizations using MapboxGL, enhancing user engagement and data comprehension.

WEATHER HUB

August 2023 - October 2023

- Led ML and AI-driven weather forecasting app development, integrating robust APIs for data exchange across UNIX/Linux OS platforms, reducing system downtime by 20%.
- Designed OAuth-secured protocols for seamless interoperability, employing Agile methodologies for iterative cycles, and optimizing system performance through BIOS debugging techniques.

PHARMACY MANAGEMENT SYSTEM

April 2023 - June 2023

- Developed Django-based web app with MySQL and PostgreSQL integration, incorporating microcontrollers for real-time tracking, managing 15,000 monthly transactions.
- Managed cross-functional team in Spring Boot deployment on Azure, implementing SSL encryption for secure data transmission, ensuring compliance with industry standards.