

# SHIVAM PARASHAR

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## EDUCATION

### ROCHESTER INSTITUTE OF TECHNOLOGY

Master of Science, Computer Science (GPA: 3.8)

Teaching/Course Assistant: CSCI 141/242 - Data Structures & Problem Solving Algorithms; Java OOPS

Rochester, NY

Jan 2023 - May 2025

### VELLORE INSTITUTE OF TECHNOLOGY

Bachelors of Science, Computer Science

Vellore, TN, India

Jul 2015 - Jun 2019

## WORK EXPERIENCE

### DELOITTE CONSULTING USI

#### Software Engineer

Gurugram, HR, India

Jul 2019 - Dec 2021

- Designed, maintained, and delivered 10+ databases on AWS and OCI for clients in healthcare, finance, and retail, optimizing cloud and on-premises data management with automated monitoring alerts
- Built 15+ Tableau/Power BI dashboards leveraging GenAI insights via AWS Bedrock to drive stakeholder decisions
- Integrated Java microservices and build processes into Jenkins CI/CD pipelines with cross-functional teams, reducing deployment time by 30% and ensuring seamless releases
- Automated manual sandbox environment setups for client testing by scripting Terraform configurations in Python to instantiate Docker container images on Kubernetes clusters and cutting provisioning time by 40%
- Managed JIRA dashboard to track and resolve bugs, ensuring timely updates and clear communication across teams
- Facilitated Agile sprint planning & retrospectives, enhancing team adaptability to pivots and ensuring timely delivery of solutions

### I3C LOGICS TECHNOLOGIES

#### Data Scientist, Co-op

Noida, UP, India

May 2018 - Jun 2018

- Optimized Call Data Record processing using Pandas, reducing data loading time by 48% and improving client insights
- Enhanced data visualization to drive actionable business insights and informed decision-making
- Developed a Python ML model on AWS SageMaker (92.7% accuracy) to impute missing CDRs, boosting data completeness
- Managed end-to-end data lifecycle, from collection to visualization, boosting data-driven decision-making

### ORACLE

#### Software Engineer (Backend), Co-op

Pune, MH, India

May 2017 - Jul 2017

- Engineered Java-based REST endpoints on Oracle WebLogic, reducing integration errors by 8%
- Refined SQL/PLSQL with indexes and views, cutting report generation time by 19% and accelerating analytics
- Automated database maintenance with Shell scripts, cutting manual overhead by 30%

## SKILLS

Language & DB:	Python, Java, SQL, C/C++, Shell/Bash; PostgreSQL, MongoDB, Neo4j (Cypher), DynamoDB
Data, ML & GenAI:	Pandas, NumPy, TensorFlow, Scikit-Learn, NLTK, Matplotlib, Folium; AWS SageMaker, Bedrock
Cloud & Infrastructure:	AWS (IAM, S3, EC2, Lambda, Route 53, ELB, CloudFront), OCI; Docker, Kubernetes, Terraform
CI/CD & DevOps:	Jenkins, GitLab CI, GitHub Actions; Git, Jira
API & BI Visualisation:	RESTful APIs, JSON; Tableau, Power BI, Excel
Environments & IDEs:	Linux/Unix, Windows, macOS; VS Code, IntelliJ, PyCharm

## ACADEMIC PROJECTS

### Traffic Flow Optimization using AI and Cloud

Jan 2025 - May 2025

- Developed a SUMO simulation pipeline ingesting OpenStreetMap data for 10000+ vehicles and implemented a reinforcement learning rerouting agent to dynamically adjust paths and alleviate congestion
- Evaluated RL vs. baseline with automated CSV metrics, demonstrating a 25% drop in average wait time, 18% CO<sub>2</sub> reduction, and 30% throughput gain; planning AWS Kinesis/Lambda integration for real-time scalability

### Curriculum Management System

Aug 2024 - Dec 2024

- Engineered full-stack curriculum management app with Spring Boot (RESTful APIs, RBAC, authentication), React, and Neo4j—enabling secure role-based access across students, instructors, and admins
- Designed a graph-based Neo4j schema modeling users, courses, and lessons; implemented optimized Cypher queries for 40% faster data retrieval and relationship traversal

### NY City Crash Map Data Mining and Visualization

Jan 2024 - May 2024

- Cleaned and filtered large crash datasets; boosting data accuracy by 30% and processing speed by 25%
- Applied K-means clustering and built interactive Folium map with 50+ graphs & heatmaps to reveal peak accident patterns

## CERTIFICATIONS AND PUBLICATIONS

AWS Certified Solutions Architect - Associate (SAA-C03)

Aug 2025 - Aug 2028

AWS Certified Cloud Practitioner (CLF-C02)

Jul 2025 - Jul 2028

Oracle SQL Fundamentals (1Z0-071)

Oracle WebLogic Middleware Administrator (1Z0-062)