

SHIVAM PARASHAR

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EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

Rochester, NY

Master of Science, Computer Science (GPA: 3.8)

Jan 2023 - May 2025

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

VELLORE INSTITUTE OF TECHNOLOGY

Vellore, TN, India

Bachelors of Science, Computer Science

Jul 2015 - Jun 2019

WORK EXPERIENCE

Saayam For All

Seattle, WA

Backend Engineer

Jul 2025 - Present

- Built stateless REST APIs in Flask with clean request validation, business logic isolation and production-ready error handling
- Implemented a deterministic, score-based matching service, integrating LLM classification as an enrichment step
- Deployed services on AWS Lambda + API Gateway, optimizing for concurrency, low latency and cost efficiency
- Managed AWS IAM roles and access policies, enforcing least-privilege and secure service-to-service access
- Applied platform best practices (structured logging, defensive validation, scalability considerations) for reliable system operation

Deloitte Consulting USI

Gurugram, HR, India

Software Engineer

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 integrating SQL/ETL pipelines and visualizations to drive stakeholder decisions
- Provisioned and governed infrastructure as code (IaC) on AWS using Terraform for EC2, S3, and VPC configurations
- Streamlined CI/CD pipelines for Java-based applications using Jenkins, Maven, and Gradle, reducing deployment times by 30%
- Automated sandbox environment provisioning with Terraform and Docker on Kubernetes clusters, cutting setup 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

Oracle

Pune, MH, India

Software Engineer (Backend), Co-op

May 2017 - Jul 2017

- Built Java REST APIs on Oracle WebLogic, improving service integration and reducing production errors.
- Optimized SQL/PLSQL using indexes and views, cutting report generation time by 19%.
- Automated database maintenance with Shell scripting, reducing manual operational effort by 30%.

SKILLS

Language & DB:	Python, Java, SQL, C/C++, Shell/Bash; PostgreSQL, MongoDB, Neo4j (Cypher), DynamoDB
Data, ML & GenAI:	Pandas, NumPy, Matplotlib, Folium; AWS SageMaker, Bedrock, LangGraphs, CrewAI
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, MCP
API & BI Visualisation:	RESTful APIs, JSON; Tableau, Power BI, Excel
Environments & IDEs:	Linux/Unix, Windows, macOS; VS Code, IntelliJ, PyCharm

ACADEMIC PROJECTS

CrewAI Multi-Agent Automations

Jul 2025 - Aug 2025

- Architected 5+ multi-agent systems with CrewAI, leveraging LangGraphs and MCPs to coordinate LLM agents and custom tools for debates, financial research, software delivery, and stock screening
- Demonstrated reproducible pipelines with YAML-based orchestration, integrating OpenAI, Anthropic, Gemini, Grok, and custom tools (Serper.dev, Pushover, Gradio, SQLite) to enable agent collaboration, memory persistence, and CI/CD automation

E-Commerce DevOps Implementation

Jan 2025 - May 2025

- Implemented DevOps practices for microservice e-commerce app using containerization, orchestration, and CI/CD automation
- Created EKS clusters within custom VPCs using Terraform modules and automated CI/CD for Java microservices via GitHub Actions and Argo CD, achieving single-click deployment
- Configured AWS networking with VPC, load balancers, and Route 53 for secure domain setup and production-ready 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

CERTIFICATIONS AND PUBLICATIONS

AWS Certified Solutions Architect - Associate (SAA-C03)

Aug 2025 - Aug 2028

AWS Certified Cloud Practitioner (CLF-C02)

Jul 2025 - Jul 2028