

CHARMI DHARMENDRAKUMAR PARMAR

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SUMMARY

Software engineer with experience in backend development, data engineering, ML & cloud-native solutions. Skilled in Java, Python, React, Terraform, AWS & Agile methodologies with 2 years of experience in building scalable platforms, data pipelines, & visualization.

PROFESSIONAL EXPERIENCE

Software Engineer, Humanitarian.AI, Boston, MA

January 2025 – Present

- Spearheaded test-driven development and executed unit, integration, and regression testing for **10+ Java Spring Boot microservices**, ensuring code reliability with **JUnit, Postman, and SoapUI** and achieved 80% coverage ensuring high-quality code.
- Optimized data retrieval times by 25% by implementing **partitioning** and **indexing** and optimizing complex queries in **PostgreSQL DB**.
- Streamlined integration process by documenting **Java based REST APIs** with **Swagger**, improving cross-team collaboration.
- Containerized 5 microservices as part of a POC with **ECS** and **Fargate** to ease deployments across environments, enhancing portability.
- Partnered with key stakeholders for system maintenance, and problem resolution, ensuring compliance with methodologies and SLA.

Software Engineer, Abecedarian LLC, Boston, MA

July 2024 – December 2024

- Delivered 5+ **Python microservices** performing data validation and loading into **SQL Server** with **SDLC** and **Agile** methodology, leveraging **Jenkins** for **CI/CD** and **JIRA** for project management.
- Accelerated deployment cycles by 60% for 20+ **Java applications** by automating **CI/CD** pipelines with **Jenkins, Git, and GitHub Actions**.
- Automated deployments with **CloudFormation**, increasing deployment frequency by 40%, and ensuring system reliability & security.
- Optimized onboarding pipeline by identifying bottlenecks & implementing efficient **SQL procedures**, reducing processing time by 50%.
- Executed **data preprocessing, feature selection, and data scrubbing** on large-scale text datasets using **Python, Pandas, and NLTK**.

Software Engineer, Optimum Engineers, Vadodara, India

June 2021 – August 2022

- Engineered 10+ **Java (Spring Boot)** services, reducing response times by 40%, improving data retrieval speed for real-time analytics.
- Streamlined monitoring by deploying **Elasticsearch & Kibana dashboards**, cutting response time to issues with real-time log insights.
- Designed and developed a real-time **React JS** interface for internal web application, improving accessibility and operational efficiency.
- Executed **test-driven development (TDD)** with unit, & integration testing using **Postman and SoapUI** in different environments.
- Led bi-weekly standup meetings with **10+ stakeholders**, simplifying complex data findings into clear, actionable recommendations, resulting in a 20% increase in stakeholder engagement.

PROJECTS

Assignment Management WebApp | AWS, GCP, Packer, Terraform, Git, CI/CD, YAML, Bash, Java, Linux, MySQL

- Formulated and automated **AWS infrastructure** provisioning (**VPCs, EC2, RDS, DNS, CloudWatch, DynamoDB**) with **Terraform** and **GitHub Actions** for **CI/CD** integration, automating unit and integration testing, AMI creation, and securing access with IAM policies.
- Crafted 10+ **RESTful APIs** for assignment and account management using **Java and JWT**, scalable to handle 10,000+ requests/min.

Comprehensive ETL and Data Modeling | Alteryx, Talend, ER Studio, Power BI, Tableau, SQL, MySQL, Google Big Query, Azure

- Architected data pipelines using **Alteryx and Talend** to extract, transform and load 125 million+ raw data points into **SQL Server** using **SSMS**, boosting data quality by 70%. Elevated data-driven insights through 10+ interactive visualizations in **Tableau and Power BI**.
- Implemented **Star schema and Snowflake schema** to design **Enterprise Data Warehouse (EDW)** model, catering to OLAP needs.

AI-Driven Semantic News Analyzer | Python, FAISS, Langchain, OpenAI

- Developed an analytics tool using **Python, FAISS, LangChain, & OpenAI**, leveraging **generative AI & LLMs** to enhance equity research analysis, achieving a 40% efficiency boost in semantic search & a 30% accuracy improvement in **data processing & extraction**.

ConnectEngine - A Social Media Application | HTML, CSS, JavaScript, React JS, Node.js, MongoDB

- A full-stack application with real-time posts, and secure authentication using **React JS, Node, MongoDB, and JsonWebTokens (JWT)**.
- Built 10+ REST API endpoints with **token-based authentication** and **role-based authorization**, streamlining secure access for users.

KEY SKILLS AND PROFICIENCIES:

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|------------------------------------|--|
| Programming and OS | Python (Pandas, PySpark), SQL (Joins, Subqueries, Window Functions), Java, React JS, JavaScript |
| Analytics and Testing Tools | Tableau, QuickSight, Spark, Kinesis, Kafka, S3, Redshift, Glue, Lambda, Glacier, Junit, Postman, SOAP UI |
| Database Management | Relational Database, MS SQL, MySQL, PostgreSQL, NoSQL, DynamoDB, MongoDB, Cassandra |
| Cloud and Management | Git, Jenkins, GitHub, Elasticsearch, Kibana, AWS, Agile Methodologies, Scrum, Kanban, JIRA, Confluence |
| Data Warehousing | Star & Snowflake Schemas, Partitioning, Compression, Multi-layer Architectures (Staging, Transformation) |

EDUCATION

Master of Science in **Computer Software Engineering**, Northeastern University, Boston, MA

September 2022 – May 2024

Bachelor of Technology in **Computer Science and Engineering**, Nirma University, Gujarat, India

August 2018 – May 2022