

Het Rajesh Nagda

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EDUCATION

University of Illinois Chicago

Master's in Computer Science

Chicago, IL

Aug. 2024 – May 2026(Exp.)

University of Mumbai

Bachelor of Engineering in Computer Engineering

Mumbai, IN

Aug. 2018 – May 2022

EXPERIENCE

Associate Software Engineer

Accenture

Nov 2022 – Jul. 2024

Mumbai, IN

- Built a JavaScript automation pipeline processing **10K+ daily B2B transactions**, cutting manual processing overhead by 55% across enterprise workflows.
- Redesigned parsing and validation logic with fault-tolerant error handling, reducing system failure rates by 30% and maintaining consistent SLA compliance.
- Diagnosed production outages using root cause analysis and network diagnostics, slashing **MTTR by 40%**.
- Coordinated bug remediation across a **20+ engineer Agile team**, eliminating recurring defects by 25%.
- Authored technical documentation for workflows, reducing ramp-up time for new engineers by 30%.

Python Developer Intern

Trivia Softwares

Feb 2021 – Apr. 2021

Mumbai, IN

- Revamped UI/UX based on focus group feedback using Django templates, growing the platform to **300+ daily active users** and cutting onboarding time by 90%.
- Optimized Python backend through database indexing, reducing page load times by 25%.
- Validated code quality via unit and integration testing, achieving zero critical bugs across 3 releases.

PROJECTS

Distributed LLM Inference Engine | *Scala, AWS, Spark, Hadoop, Akka HTTP, gRPC, Docker*

- Architected a **MapReduce pipeline on AWS EMR** with Hadoop for parallel tokenization of a 10GB corpus, cutting processing time by 89%.
- Designed distributed Spark training across a multi-node cluster using Parameter Averaging with DeepLearning4J, reducing model training time significantly.
- Deployed an Akka HTTP microservice on EC2 with gRPC-Lambda integration, handling concurrent client requests at **sub-200ms latency**.

Cancer Nutrition Analytics Dashboard | *React, D3.js, JavaScript, TopoJSON*

- Developed an interactive React dashboard with 7 custom D3.js visualizations analyzing dietary patterns across **724 patients in 50 states**.
- Implemented linked filtering with React memoization, delivering sub-100ms cross-chart interactions across 10K+ data points.
- Built radar and parallel coordinate visualizations comparing individual dietary metrics against national averages for personalized intervention planning.

Chicago Energy Performance Navigator | *Python, Streamlit, Scikit-learn, Plotly, Folium*

- Trained ensemble ML models (Random Forest, XGBoost, Gradient Boosting) on 3,500+ buildings, achieving **93% accuracy ($R^2 = 0.93$)** for ENERGY STAR score prediction.
- Applied K-means clustering to segment 4 building archetypes by consumption pattern, projecting 15–20% citywide energy savings.
- Shipped a Streamlit dashboard processing 25+ energy metrics with geospatial visualizations for peer benchmarking across building characteristics.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, Scala, SQL, C++, C#, Rust, Golang

Frameworks: React, Django, Flask, Node.js, Akka HTTP, REST APIs, gRPC, Protobuf, Docker, Kubernetes

Developer Tools: AWS (EMR, EC2, Lambda, S3), PostgreSQL, MongoDB, Redis, Git, CI/CD, Kafka

Libraries: Apache Spark, Hadoop, scikit-learn, DeepLearning4J, D3.js, pandas, NumPy