Dipesh Parwani

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SUMMARY

- **Backend Engineer** specializing in **AI-driven systems**, combining Large Language Models (LLMs) and autonomous agents with scalable microservices. Experienced in **RAG**, vector databases, and **LangChain** to build intelligent applications. Proficient in **Java, Python, Spring Boot**, and distributed architectures. Passionate about integrating Generative AI into real-time, event-driven systems.

EDUCATION

- **New York University** — Brooklyn, NY
  Master of Science in Computer Science; GPA: 3.81 — *Aug. 2023 – Apr. 2025*

- **Lakshmi Narain college of Technology** — Bhopal, India
  Bachelor of Engineering in Computer Science — *May. 2015 – May. 2019*

EXPERIENCE

- **Siemens** — Bangalore, India
  Software Engineer — *Feb 2022 - July 2023*
  - Designed and implemented scalable microservices for the Asset Management Suite web app using Spring and Java, reducing API response times by 30%.
  - Engineered data retrieval and transformation queries in Neo4j and PostgreSQL, cutting query execution time by 60% and enhancing real-time graph processing for industrial networking devices.
  - Configured the API Gateway for AMS platform using Spring Cloud, implementing request routing, circuit breakers, and load balancing to improve reliability and reduce failed requests by 20%.
  - Containerized AMS services using Docker, optimizing image builds for efficiency and consistency, and collaborated with the team for deployment on Kubernetes via Helm.

- **Wipro** — Bangalore, India
  Software Engineer — *Nov 2019 - Feb 2022*
  - Developed pricing service for HPE's iQuote platform using Spring Boot, TypeScript, and Vue.js, applying object-oriented design and test patterns to enhance code quality.
  - Developed secure SQL queries and stored procedures to prevent SQL injection, implementing database triggers for automated auditing and data validation.
  - Integrated structured logging with ELK Stack, enabling real-time monitoring of pricing trends and improving system observability.

- **Wipro** — Bangalore, India
  Software Engineer Intern — *Spring 2019*
  - Developed a web application for managing book metadata from E-Library, integrating Cassandra for optimized search performance. Implemented interactive SVG data visualizations using D3.js and deployed to AWS with ELB and CloudFront, improving load times by 30%.

PROJECTS

- **Queriosity:** Built an AI-driven RAG pipeline that lets users upload research papers and query content with context-aware LLM responses, enabling semantic search and key insight extraction.
- **NL-Photo-Album:** Developed an AI-driven photo album that tags images using AWS Rekognition and enables natural language allowing seamless text-to-image queries.
- **RealTimeStockAnalysis:** Built a real-time streaming pipeline that processes and visualizes stock market data, leveraging automated insights and trend detection to support informed decision-making.
- **NYC-Soundscape:** An interactive app that visualizes NYC's diverse soundscape for immersive acoustic exploration.

PROGRAMMING SKILLS

- **Languages & Frameworks:** Java, Spring Boot, Python, JavaScript, SQL, Node.js, Vue.js, Django, Hibernate, OAuth2.0
- **AI:** LLMs, LangChain, Hugging Face, RAG Pipelines, Vector Databases (PineCone), Fine-tuning Models, Prompt Engineering
- **Databases & Messaging:** Neo4j, DynamoDB, Cassandra, PostgreSQL, Redis, Kafka, gRPC, WebSocket
- **Cloud & DevOps** AWS, Docker, Bedrock, Kubernetes, Helm, GitLab CI/CD, Travis, GCE, Cloud Formation
- **Monitoring & Testing:** ELK Stack (Elasticsearch, Logstash, Kibana), FluentD, Grafana, JUnit, Mockito, OAuth2, JWT, Keycloak, TDD