

# Praveen Kumar

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## Summary

Highly motivated Full Stack Developer with over 2.5 years of experience in building scalable, performant, and secure web applications. Proven ability to own projects end-to-end, from architectural design to crafting intuitive user experiences using **React.js**, **Node.js**, **TypeScript**, **FastAPI** and **Python**. Passionate about leveraging **Generative AI** and **LLM-powered tools** to deliver high-quality, impactful solutions, particularly in fast-paced, product-driven environments.

## Education

JNTUA College of Engineering, Kalikiri, IN 2018-2022  
Bachelor of Technology - Computer Science and Engineering; CGPA: 8

## Work Experience

Infosys Specialist Programmer  
Oct 2022 – Present

- Developed a ChatGPT-like chat interface using **React.js** and an internal design library, reducing development time for new chat features by 30-40%.
- Implemented a robust state management solution using **Redux Toolkit** for 20+ components, improving maintainability and scalability.
- Designed and deployed a **backend-for-frontend (Node.js BFF) architecture**, securely managing sensitive secrets and reducing credential exposure by 70%.
- Maintained high code quality** through peer code reviews, adherence to clean code principles, and implementation of comprehensive unit and integration tests using Pytest, Ruff, Pre-commit hooks.
- Designed and implemented a scalable product prompt library, integrating **OpenSearch** for optimized storage and search capabilities across personal and enterprise prompts. Engineered the front-end interface with **React**, **TypeScript**, and **Vite**, incorporating robust OAuth2 authentication. Built out the **RESTful APIs in Python FastAPI** backend, seamlessly connecting to OpenSearch for data management.

Wipro Lead  
Apr 2022 – Jul 2022

- Acquired practical skills in HTML, CSS, JavaScript and React through comprehensive training.
- Built a online food App to showcase the practical application of web development techniques.

## Technical Projects

Visual Query System  
Nov 2024 – Jan 2025

- Designed and developed a visual query system enabling users to interact with context diagrams via a chatbot interface.
- Leveraged React.js for the frontend interface and integrated Langchain’s GraphChain to support natural language-based queries.
- Utilized a **Neo4j graph database** to store and manage context diagram data, enabling efficient retrieval and analysis.

Online Feedback System Project Lead  
Jan 2022 – Jul 2022

- Directed a team of 4 developers in the design and implementation of a web application using **PHP**, **Bootstrap 4**, **MySQL**, and **XAMPP**, resulting in a 40% reduction in feedback submission time for over 1K registered students.
- Spearheaded the integration of features such as course management and regulatory updates that increased staff engagement with the platform by 60%, improving overall user satisfaction ratings to above 90%.
- Optimized report generation processes that enhanced operational efficiency by 35%, enabling staff to access feedback data within minutes instead of days.

## Technical Skills

**Languages:** Javascript, Typescript, **Python**, HTML, CSS  
**Libraries&Frameworks:** ReactJS, RTK, NextJS, NodeJS, ExpressJS, **FastAPI**, REST APIs, Jest, Pytest  
**Database:** MongoDB, MySQL, Neo4j, **DynamoDB**, **OpenSearch/ElasticSearch**, Redis  
**Cloud&Deployment:** AWS (S3, DynamoDB, Bedrock, SageMaker, Lambda, ElasticCache), CI/CD pipelines, Docker, Git  
**Subjects:** Data Structures and Algorithms, OOPS, CI/CD, SDLC, Agile Methodology, Operating System,  
**GenAI:** Generative AI, DL, NLP, LangChain, RAG, Semantic Search, NLKT, LLM Finetuning, Pytorch, Prompt Engineering

## Certifications

- AWS GEN AI Master Learning Plan
- Neo4j Certified Professional GraphAcademy
- JavaScript Full Stack (MERN) StackRoute