PUNEET DHIMAN

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RECENT EXPERIENCE

CarDekho (Girnar Software Private Limited)   Oct 2024 – Present
Software Development Engineer - 1 (SDE-1)

- **Middleware Development:** Integrated APIs for GST, DigiLocker, and RTO services with secure validation, error handling, and encrypted data flow.
- **SQL Injection:** Refactored queries to eliminate vulnerabilities and follow industry-standard security practices.
- **Cache Optimization:** Enabled real-time data retrieval with client-configurable cache bypass features across APIs.
- **Swagger API Docs:** Authored detailed Swagger docs to streamline onboarding, integration, and testing processes.
- **Bank Statement Analysis:** Automated data mapping for FinBox and Account Aggregator outputs.
- **User Notification:** Enhanced UI messaging and breakdown screens to boost transparency and user experience.

Shorthills.ai   July 2023 – Oct 2024
Software Developer Engineer - 1 (SDE-1)

- Developed a **Next.js application** with modular components and **server-side rendering** for scalability.
- Implemented **JWT-based authentication** and integrated **React Modal** and **Toast notifications** for improved UX.
- Optimized **API interactions** with Axios and managed state using **React Hooks** and **Redux**.
- Built features for **file uploads**, **knowledge base management**, and **query execution** with efficient error handling.
- Leveraged **LangChain** for product spec generation and fine-tuned **LLMs** like **LLaMA2**, **FlanT5**, and **Falcon**.
- Evaluated outputs using **BERT** and **GloVe**, achieving near perfect scoring metrics.
- Utilized **MLflow** for prompt output comparisons and **model optimization**.
- Developed backend endpoints for **time-limited Azure Blob Storage** operations.
- Implemented **data re-ranking algorithms** to enhance search relevance.

TECHNICAL COMPETENCIES

Frontend Development	React.js, Next.js, Tailwind, HTML, CSS, JavaScript (ECMAScript-14), Jest.
Backend Development	Node.js, Express.js, Python, SQL, Sequelize, Bash, C++, Redis.
Tools & Platforms	VS Code, Git, GitHub, Bitbucket, Postman, Google Colab, Qualtrics.
Core Concepts	OOPs, Database Management Systems (DBMS), Data Structures and Algorithms (DSA).
Cloud & Databases	MongoDB, MySQL, PostgreSQL, Blob Storage, Redis, Vector Databases (Faiss, Weaviate, Chroma).
AI & Machine Learning	LangChain, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Re-Ranking, Prompt Engineering, Vector Search, Hugging Face, Natural Language Processing (NLP).

EDUCATION

Netaji Subhas University of Technology East Campus   Aug 2019 – July 2023
Bachelor of Technology   CGPA: 8.7

PROJECT AND FREELANCE

Memories   Project

- Built an application for users to capture and share memories tied to their favorite places.
- Implemented image optimization for efficient storage and memory usage.
- Integrated secure user authentication with dynamic token generation.

Topic Analysis   Freelance

- Designed an **NLP pipeline using NLTK and Gensim** to extract key topics from blog and video content.
- Applied **LDA with dynamic tuning** to identify optimal topics, storing structured insights in JSON.
- Streamlined text preprocessing through tokenization, lemmatization, and stopword removal for improved topic coherence.

OPEN SOURCE AND ACHIEVEMENTS

LangChain:

- Contributed to correcting spelling errors in official documentation.
- Ranked **7th worldwide** as top contributor in team collaboration.

OpenAI Cookbook:

- Corrected errors in the official OpenAI documentation.

Achievements:

- First Runner-Up in College Hackathon.
- Scored **98.92%** in E-Litmus PH Paper.
- Achieved **95.7%** score in JEE Mains.
- Ranked **1300 out of 10,000** in GFG Job-a-thon.