

Vinod Sharma

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Education

Indian Institute of Technology Kharagpur

Jul 2019 - May 2024

Bachelor of Technology in Civil Engineering (CGPA: 8.08 / 10)

Kharagpur, West Bengal

- **Relevant Coursework:** Data Structures and Algorithms (C++), Probability & Statistics, Linear Algebra

Experience

ICICI Bank

Jul 2024 – Present

SDE-1, Innovation Labs (GenAI Team), ICICI Bank

Mumbai, Maharashtra

- Developed a Business requirement specifications document generator that automates the process of making BRS.
- Utilized **llama3.3:70b** model to extract information using conversation context of the user in the deep tree structure
- Generated mermaid user flow script for backend applications using **deepseek-coder:33b** model by giving chat context and efficient prompts.
- Streamlined BRS creation, turning a multi-day manual task into a fast, automated process completed in minutes.
- Implemented a real-time llm backed chat feature using WebSocket and Socket.io, enhancing user engagement and reducing response time by 20%.

Swish Club

May 2023 – Aug 2023

Software Development Engineer Intern

Bengaluru, Karnataka

- Automated the process of uploading products on AWS Cloud Search and caching in Redis for an e-comm platform.
- Empowered dynamic content updates in front-end by integration of Strapi content management system in backend
- Successfully incorporated **PhonePe Payment Gateway**, ensuring quick, user-friendly and secure payment processing in backend to backend call
- Implemented **AWS-SES** integration to automate post-event email notifications, enhancing user communication
- Built an end to end checkout process from Buy Now to Order Placed for the e-commerce system in the backend

Fatcat Innovations Pvt Ltd

Dec 2022 – Jan 2023

Software Development Engineer Intern

Hyderabad, Telangana

- Implemented the students login auth as well as login with Google and Microsoft for the ERP based System
- Designed database schemas and entity-relationship diagrams for college ERP system using PostgreSQL database
- Wrote APIs using python flask framework to retrieve data based on dynamic queries as per front-end requirements
- Developed an authentication middleware, significantly enhancing APIs security and ensuring protection of APIs

Hackathons/Projects

Financial Doc Summarizer | Python, FastAPI, Docker

[GitHub]

- Built an AI-powered summarizer to extract key insights from financial PDFs (quarterly results, earnings calls, presentations, press releases).
- Converted raw PDFs and scanned images into standardized Markdown using **pymupdf4llm** library, enabling consistent and efficient processing by the LLM.
- Implemented a RAG pipeline with **ChromaDB** embeddings to generate accurate, parameter-based summaries (P&L, revenue, deposits, assets).
- Automated financial report analysis, reducing manual review effort by 95% through AI-driven extraction and summarization of key insights from lengthy PDFs.

MCP Platform | Python, FastAPI, Docker, MongoDB, REST

[GitHub]

- Built an **MCP** platform where users can either create and deploy custom MCP tools on Docker or use pre-deployed tools directly through a chat interface.
- Streamlined deployment using Dockerized services, improving portability, ease of use, and reducing setup overhead for end-users.
- Reduced manual configuration by 90% by enabling users to fetch or generate MCP tools dynamically via chat, leveraging semantic search and LLM-assisted tool creation.
- Implemented a local AI API using **GPT4All (LLaMA 3.2-1B Instruct)** for private, cost-efficient AI processing

Competitions/Conference

Rating

- Actively participated in weekly contests and achieved rating over 1650+ on Leetcode (Handle: Vinodsharma123)
- Achieved rating over 1200+ on the competitive programming platform Codeforces (Handle: 052000vinodsharma)