Geetendra Singh Sengar

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LinkedIn |Portfolio (geetendra.com) | Github

WORK EXPERIENCE

Senior Software Engineer | Alphablocks   APR 2024 -AUG 2024
- Engineered a **Generative AI-powered** customer support chatbot.
- Implemented a **data training pipeline** by integrating **semantic splitting**, **ColBERT embeddings**, and **hierarchical indexing** (Raptor) to optimize data storage in **Pinecone** and mapping entity relationships in **knowledge graph** (Neo4j).
- Implemented a **data retrieval pipeline** featuring **query rewriting**, **routing**, **decomposition**, **expansion**, and **document reranking** (RAGFusion), that elevated **RAG effectiveness by 80%.**
- Enhanced user experience by **40% using Vercel AI SDK 3.0**. Integrated **Razorpay** for payments with a **NextJS** frontend, and a **NodeJS** and **Django** backend, using **PostgreSQL** as the database.

Software Engineer | Quantive   JUN 2022 - DEC 2023
- Led a team of 5 members in the development of Athena, an **enterprise knowledge retrieval system** powered by a LLM..
- Leveraged a commercial **Large Language Model (LLM)**, particularly **OpenAI**, for advanced conversation intelligence.
- Engineered the backend infrastructure using **Fastapi** and crafted the frontend with **Reactjs**. Applied **Weaviate as vectorDB** to achieve efficient and context-aware data retrieval leading to 40% reduction in response time.
- Implemented **prompt engineering strategies**, resulting in an **80% optimization** of project overall output.

Software Engineer | Cliff.ai (acquired by Quantive)   DEC 2021 - JUN 2022
- Developed B2B SaaS application Cliff.ai, an Anomaly Detection Tool, and carried out enterprise features like **SSO**, **Role-Based Access Control**, **2FA**, and **Audit Logs**, **SLA and Support**.
- Introduced **distributed system architecture**, boosting efficiency by **15%,** and Implemented critical features such as **Root Cause Analysis** (RCA), **Incident Management System**, **Omni-Search**, and integrated various data sources using expertise in **ReactJS**, **NodeJS**, **Python**, **Prisma ORM**, **Postgres**, and **Elasticsearch**.
- Elevated to **Team Lead**, managed a team of 8, and achieved a **20% efficiency increase** during the migration of cliff.ai code from AngularJS to ReactJS,revamped cliff.ai contributed a pivotal role in the **successful acquisition by** Quantive.

Junior Software Engineer | Cliff.ai (acquired by Quantive)   NOV 2020 - DEC 2021
- Developed a modern data stack platform featuring a **community hub, podcast section**, and comprehensive **data stacks**.**Boosted user engagement by 30%** through top-tier tool exploration and **data stack navigation**.
- Utilized **NextJS and NodeJS** to build the website's frontend and backend components, Integrated **GraphCMS** as a content management system, resulting in a **40% time-saving** in content updates.
- Strategically launched the website on **Product Hunt**, achieving an impressive ranking as the **3rd best project of the day and 4th best of the week, garnering 324k+ global views and onboarding 67k+ users within a year**.

PROJECTS

Sass-AI: [ReactJS, NextJS, OpenAI, ReplicateAI, Postgresql, Prisma, Zustand, Clerk-Auth, Stripe]
- Leveraged **OpenAI's** natural language processing to facilitate chat interactions, code and image generation.
- Utilized **ReplicateAI** riffusion model for music and zeroscope-v2 model video generation.
- Executed **authentication using Clerk** and **secure payment processing through Stripe**.

Node Micro Services : [NodeJS, ExpressJS, Kafka, Rabbitmq, gRPC, Message Broker, MongoDB]
- Built microservices for a retail shopping app, dedicated to customer management, shopping processes, and productinformation, each supported by separate databases.
- Executed effective **inter-service communication utilizing a message broker** and incorporated **CQRS to optimize scalability by 30% for both read and write operations.**

TECHNICAL SKILLS
- **Languages:** Javascript, Python.
- **Frontend Technologies:** ReactJS, NextJS, React Native, Redux, Tailwind, Bootstrap, Typescript, AI SDK 3.0.
- **Backend Technologies:** NodeJS, ExpressJS, Golang, Fast Api, gRPC, Kafka, Rabbitmq, Prisma, Mongoose,Django, Langchain, langGraph, openAI, Neo4j.
- **Databases:** MongoDB, Postgres, Elasticsearch, Redis

EDUCATION

Bachelor of Engineering | AUG 2016 - AUG 2020
Gyan Ganga College of Technology, Jabalpur, India | 7.9/10 CGPA