SHASHWAT DIXIT

Bengaluru, India

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Experience

Pummyz Foods　　　　　　　　　　　　　　　　　　　　　　　**May 2024 – Aug 2024**
Full-Stack Developer　　　　　　　　　　　　　　　　　　　　　　　　　　*Freelance*
- Designed and implemented website with **Next.js** and **server-side rendering**, boosting PageSpeed performance and core web vitals by 35 %.
- Enhanced **responsive UI** design, driving 25 % **higher engagement** and lower abandonment.
- Optimized image delivery using **AWS S3** and **CDN**, reducing image load times by 30 %.
- Implemented **PostgreSQL** database with **Prisma ORM** for type-safe database operations, improving development efficiency and data integrity.

Take It Smart　　　　　　　　　　　　　　　　　　　　　　　**July 2023 – Sept 2023**
Frontend Developer　　　　　　　　　　　　　　　　　　　　　　　　　　*Internship*
- Implemented **lazy loading** and **browser caching** strategies, reducing page load time and improving Core Web Vitals scores by 30 %.
- Devised and integrated a **search feature** using **Elasticsearch**, resulting in 50 % faster search response times and improvements in search result relevancy.
- Implemented **form validation** and **error handling** logic, reducing user input errors.

Projects

Jamin - Fast, Helpful AI Chat　　　　　　　　　　　　　　　　　**[Deployment] [GitHub]**
- Developed **full-stack AI platform** integrating **multiple LLMs** (**GPT**, **Claude**, **Cohere**) using **LangChain** and **React/Node.js**.
- Implemented **RAG** for PDF Q&A and YouTube summarization, plus **Stable Diffusion** for **image generation**.
- Designed **scalable database** with **PostgreSQL/Drizzle**, enabling **context-aware conversations** across multiple models.

Zort - Collaborative Whiteboarding Tool　　　　　　　　　　　　**[Deployment] [GitHub]**
- Architected a **real-time** collaborative whiteboard using **Next.js** and **Socket.IO**, supporting **100+** concurrent users.
- Implemented client-side state management using **Zustand** and **localStorage**, reducing server load.
- Engineered **CI/CD** pipeline using **Docker** and **GitHub Actions**, automating build and deployment processes with zero failures.

CodeCompete - Typeracer for LeetCode　　　　　　　　　　　　**[Deployment] [GitHub]**
- Engineered a competitive coding platform using **TypeScript**, **React**, and **Express**, implementing **ELO-based** matchmaking using **WebSockets** for 5-player competition lobbies.
- Built secure code execution system using **Docker** containers for sandboxed environments and **AWS SQS queues** for submission handling.
- Designed scalable architecture utilizing **AWS S3**, and **React Query** for efficient state management and data synchronization.

Technical Skills

Languages: Javascript, Typescript, Python, C++, Go
Developer Tools: Git, Amazon Web Services (AWS), Google Cloud Platform (GCP)
Technologies: React, Next.js, Node.js, Zustand, Redux, Django, Docker, Kubernetes
Databases: PostgreSQL, MongoDB, Redis

Education

Nitte Meenakshi Institute of Technology, Bengaluru　　　　　　　　　　　**2020 − 2024**
Bachelor of Engineering in Electrical & Electronics Engineering　　　　　　　　　*CGPA: 7.0*

Achievements

- Authored **two research papers** on **Quantum Computing** using Qiskit for **IEEE conferences**.
- **Won Best Innovation Award** for Major Project 2024, **ranking first among 75 students across 24 teams**.
- Named among **Top 3** All-Rounders out of 200 students on HoD's Honor Roll (2023).
- Ranked in **top** 5 % in NPTEL's 'Joy of Computing' course (2023).
- **Winner** in Machine Learning Track at Mini Hackathon NMIT'22.
- **Marketing Head** for **NASA Space Apps Challenge** 2023; secured **5 partnerships** to expand event resources.