Yugansh Arora

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SUMMARY

Full-stack Engineer with 3 years of experience in **React, TypeScript, Node.js, and Python**, building scalable web platforms and AI-powered chat systems. Skilled in **LLMs, vector databases, and real-time communication**, with a focus on performance, scalability, and user engagement. Strong focus on real-time communication, 3D user interfaces, and modern web technologies.

EXPERIENCE

Software Engineer | 4 Way Technologies | March 2024 – Present

- Leading a cross-functional **team of 6 developers** across frontend and backend, overseeing end-to-end delivery of major product features.
- **Architected and led development of ChatReal.ai**, an AI-driven chat platform, owning technical direction, system design, and integration of core features.
- **Implemented ChromaDB-based vector search** for contextual message retrieval, reducing AI response latency by **60%** and boosting response accuracy by **35%**.
- Improved backend **performance by 40%** through strategic caching, smart routing logic, and load balancing enhancements.
- Designed and integrated a 3D avatar-based chat companion, increasing user engagement by 2x and average session duration by 47%.
- **Onboarded and mentored 2 new graduates**, enabling them to become productive contributors within **4 weeks**, and reduced ramp-up time by **50%** compared to prior cohorts.
- **Contributed to two AI chat-focused client projects**, delivering end-to-end features across frontend and backend while closely aligning with client specifications and timelines.
- **Reviewed pull requests and enforced code quality standards**, improving maintainability and reducing bugs in production by **30%**.

Software Engineer | MetaRivals | Delhi, India | October 2022 – February 2024

- **Developed and deployed Solidity smart contracts** (ERC-721) on **Ethereum and Polygon networks**, ensuring secure ownership and transfer of digital assets.
- **Engineered an NFT marketplace** using **Next.js, Node.js, and Web3.js/Ethers.js**, integrating **MetaMask-based Web3 wallet authentication** for seamless blockchain transactions.
- **Implemented smart contract security best practices**, including reentrancy protection, access control modifiers, and extensive unit testing with **Hardhat/Truffle** frameworks.
- **Integrated NFT deployments across multiple platforms** using Thirdweb SDK and blockchain APIs, ensuring smooth cross-chain compatibility.
- Built scalable **RESTful APIs with Spring Boot and Node.js** to support blockchain interactions and metadata management.
- Collaborated with teams to deliver a **VR-enabled 3D open-world demo** integrated with blockchain assets, enhancing investor presentations.

PROJECT

ChatReal.ai | 4 Way Technologies | chatreal.ai/ | March 2024 – Present

- **Developed key AI chat features** such as Continue Generation and Regenerate Response, leading to a **25% increase in user engagement** through improved interactivity and control.
- Designed real-time reward and progress tracking systems using **Redis**, increasing user retention over sessions.
- Maintained and enhanced the **3D avatar customization system**, resulting in a **35% increase in daily user engagement**.
- Integrated **RAG pipelines with LangChain + ChromaDB** for contextual AI responses.
- Integrated image generation pipeline and optimized rendering flow to support real-time outputs with **<2s latency**.
- Refactored backend services for chat and image features, improving API response times by **30%**.

EDUCATION

Bachelor of Technology in Computer Science | GGSIPU | Delhi, IN | 2024 | 8.7 GPA

SKILLS

Frontend:TypeScript/JavaScript, React.js, Next.js, Tailwind CSS, Redux.
Backend: Node.js, Express.js, MongoDB, GraphQL, vector-based database (ChromaDB),Java Spring Boot.
Blockchain: Solidity, Hardhat, Truffle, Web3.js, Ethers.js, Ethereum, Polygon, BSC, Smart Contract Security.
Tools & Libraries: Vercel, TanStack Query, Three.js, Jira, Git, GitHub.
Other: WebSockets, SSE, Pub/Sub, Socket.IO, Agile