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EDUCATION

Delhi Technological University (Formerly DCE)

Aug 2018 - May 2022

B. Tech in Engineering Physics (Major in Electronics)

New Delhi, India

EXPERIENCE

Goodspace.ai

Oct 2023 - Oct 2024

Software Development Engineer (Full Stack - MERN) Noida, India

Implemented real-time, bidirectional communication between candidates and the AI interviewer (LLM) using Socket.io, achieving

- ~350ms response latency for human-like interactive interview sessions. Integrated Redis caching to reduce server load and cut average API response times by 50%, allowing the platform to handle 100K+ API
- requests per month without performance degradation. Incorporated BullMQ for asynchronous job queue management (e.g., interview scoring and transcript processing), executing
- thousands of background tasks per day and improving overall system throughput and stability. Built an event-driven notification and analytics pipeline using Apache Kafka, powering real-time SMS/WhatsApp alerts and ensuring
- reliable cross-channel delivery of user notifications. Leveraged Docker to containerize the MERN stack and streamline CI/CD pipelines, reducing deployment time by 50% and improving
- consistency and reliability of releases.
- Enhanced feed and search capabilities by implementing semantic vector embeddings with OpenSearch, delivering highly relevant results to 1M+ users and boosting user engagement.
- Developed a single-page application using React with Redux for state management, providing a seamless, responsive user experience.

IOSD Ventures Pvt Ltd

Software Development Engineer (Full Stack - MERN)

(Internship: Jan 2022 – Jun 2022 | Full-time: Jun 2022 – Sept 2023)

New Delhi, India

Jan 2022 - Sept 2023

- Developed and maintained robust RESTful APIs using Node.js, Express.js, and MongoDB for two flagship platforms—PlacementSaga (coding interview prep) and IOSD Portal (educational membership site)—ensuring efficient data handling and scalable architecture.
- Implemented full-stack features with the MERN stack, building dynamic React.js front-end components and state management logic to deliver a seamless user experience across both platforms.
- Integrated OAuth 2.0 social logins (Google & GitHub) across both platforms to streamline user onboarding and strengthen account security, improving the overall sign-up experience for users.
- Integrated JudgeO compiler to enable secure, sandboxed code compilation and evaluation within PlacementSaga's browser-based code editor, allowing users to submit and test coding problems seamlessly.
- Analyzed user engagement metrics and collected user feedback to drive continuous UI/UX improvements, refining navigation flows and feature designs that led to higher user satisfaction and retention.

Gramin Vikas Education Society

May 2021 - Aug 2021

Web Development Intern (Frontend)

Charkhi Dadri, Haryana, India

- Developed a responsive school website frontend using ReactJS, improving user experience for students, staff, and administrators.
- Integrated Firebase backend to digitally track and manage daily student attendance, increasing administrative efficiency.

PROJECTS

Jan 2025 - Present Lex Arbitra

Backend Developer (NodeJS, Express, FastAPI) - Freelance

Boston, USA

- Deployed a semantic search model leveraging Docker, FAISS, and serialized pickle files, creating efficient FastAPI endpoints accessed through a Node.js backend, enabling seamless integration for legal research.
- Processed and converted 40,000+ court judgments into structured and precise HTML documents, assigning unique identifiers to elements for accurate highlighting aligned with model outputs, significantly improving user experience and search accuracy
- Actively contributing to ongoing R&D efforts in backend architecture (Node.js, MongoDB) and model integration (FastAPI, FAISS), optimizing the legal domain-specific model for enhanced accuracy and usability.

Bilzo Labs LLP Apr 2024 - Jun 2024

Full Stack Developer (MEVN) - Freelance

Bengaluru, India

- Developed progressive web apps using Vue.js and Nuxt.js, enhancing mobile user experience, which led to an increase in user retention.
- Implemented dynamic and context-driven routing mechanisms within large-scale applications using Nuxt.js, facilitating more efficient navigation and state management.
- Utilized Vuex for centralized state management in Nuxt. is applications, improving data consistency in complex scenarios.

SKILLS

Languages: C++, C, Javascript ES6, Python, SQL, HTML, CSS, Typescript

Technologies: NodeJS, ExpressJS, ReactJS, Redux, MongoDB, MySQL, VueJS, Vuex, Tailwind CSS, AJAX, AWS, Docker, Nginx, Git, Redis, BullMQ, Elasticsearch, Socket.io, Apache Kafka, React Native, FastAPI

Concepts: REST API, Regex, Websockets, MVC Architecture, Agile & Scrum, UI/UX, HTTP/HTTPS, TCP-IP/UDP, Database Management Systems, Operating System, Linux, Design Patterns, OOPS, Algorithms, Full Stack Development