Udal kumar Khatik

Metallurgical Engineering and Materials Science

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B.Tech

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Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2022	6.8
Intermediate	CBSE	SSE, Bhilwara (Raj.)	2018	79%
Matriculation	RBSE	Seva Sadan, Bhilwara (Raj.)	2016	89.67%

Professional Experience & Key Projects

Brandfull| Full Stack Developer| Full-Time   [Oct'22– Present]
- Building a **multilingual** e-commerce web application utilizing **Next.js** and **Tailwind CSS** for the frontend and **MedusaJS** for the backend
- Implemented internationalization in the application using i18next to provide a better user experience.
- Created custom APIs and services in MedusaJS using **TypeORM**, optimizing performance.
- Collaborated with cross-functional teams to deliver high-quality features on time, while ensuring the code quality, maintainability and scalability of the application.

Doubtnut| Backend Engineer| Full-Time   [Jun'22– Sep'22]
- Created the framework for **caching** the Mysql queries using containers and **centralizing the cached data** using a single master hash, which **reduced the latency** of QA APIs by **20%** and **data storage** by **70%**
- Established a service to populate Hindi language stop words using **elasticsearch** results (TF, IDF) values, thereby using it in **search relevance** which in turn resulted in an improvement of user clicks by **2%**
- Designed a mechanism for implementing **life cycle management** for elasticsearch indices (for version 5.x.x) using **bull** for schedulers, allowing to write custom logic for **data sanity** depending on user behavior.
- Built an infinite **web-scraper** using puppeteer & **selenium** for **content inefficiency realizations** and **search relevance** improvement with different platforms' language homogeneity achievement in the search engine

Enverus| Frontend Developer| Intern   [May'21– Jul'21]
- Developed a web application using **ReactJS**, leveraging **JWT token** authentication and Material-UI/Bootstrap frameworks for the frontend design.
- Built secure private routes using React Router, while adopting **Redux** and React hooks for state management
- Collaborated with the backend team to integrate the frontend with Django, using Axios and Fetch to manage XMLHttpRequests and ensure seamless data flow between the frontend and backend components.

Travel Companion Web App | Self-Learning Project   [Aug'21]
- Built an advanced travel companion web app, which fetches the **coordinates** of the **nearby restaurants** based on specialized RapidAPIs, using **Google maps** and **Material-UI** for the user interface of the web app
- **Highlighted** the fetched locations on the map using hooks and displayed the HTML content on the sidebar

Realtime Group Chat Web App| Self-Learning Project   [May'21]
- Built a web application, which requires **credentials** like username and room id to create or join a chatting group, using React for the frontend and Socket.io **web socket**, and NodeJS as the backend
- Implemented features that allow for real-time, bidirectional, and **event-based** communication by **broadcasting messages** based on specific user activity and converting particular text to emoji

Online Course Undertaken

Applied Machine learning in Python| University of Michigan| Coursera   [Dec'20]
- Implemented **K-means** clustering algorithm to compress an image & used **PCA** for dimensionality reduction
- Developed a **movie recommender** algorithm & **Anomaly Detection** Algorithm using collaborative filtering

Technical Proficiency
- **Programming Languages:**   JavaScript, TypeScript, C++, Python
- **Miscellaneous:**   PostgreSQL, GitHub, MySQL, TailwindCSS, MongoDB, TypeORM
- **Frameworks:**   NextJs, ReactJs, MedusaJs

Miscellaneous
- Secured **1st rank** among **80+** teams in RC Plane competition organized by Aero-modelling club   ['18]