

Kabil Rajendhiran

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About

Highly skilled React and Django developer with 3 years of experience in developing efficient and scalable web applications. Adept at leveraging the latest technologies and frameworks to deliver exceptional user experiences. Seeking a challenging position to contribute my expertise and continue enhancing my skills in a dynamic work environment.

Experience

Tata Consultancy Services | Tamil Nadu, Chennai Full Stack Developer | 01/2022 - 04/2023

- Working at digital twin sector as a web developer, which includes React Js for frontend, Django for backend and Mysql for database.
- Created UI screens for various digital twin projects which includes getting dynamic inputs from the user and from various data sources and showing the digital twin's output in the UI.
- Configured React project from scratch by manually configuring Webpack and Babel loader.
- Created APIs for maintaining audit details using Django.
- Got in-depth knowledge in Js and in Django & Python.
- Designed and implemented API endpoints for data retrieval, modification, and deletion using Django Rest Framework.
- Implemented authentication and authorization mechanisms such as token-based authentication and OAuth

Zoho Corporation Pvt. Ltd., Chennai | Tamil Nadu, Chennai Software Engineer Trainee | 08/2021 - 10/2022

- Contributed in the research in the development of Elasticsearch-based plugin for custom cross cluster replication.

Freelancer

Freelance Web Developer | 06/2020 - 06/2021

- Developed and maintained responsive web applications using React.js, Django, and MySQL.
- Collaborated with clients to gather requirements, identify project goals, and define technical specifications.
- Created user interfaces and implemented frontend components using React.js, ensuring a seamless user experience across different devices.
- Utilized React.js libraries and frameworks, such as Redux or Redux Toolkit, to enhance application functionality and performance.
- Designed and implemented RESTful APIs using Django, enabling efficient data exchange between frontend and backend systems.
- Built database schemas and utilized MySQL to store and retrieve data, ensuring data integrity and performance optimization.
- Implemented authentication and authorization systems using Django's authentication framework, enhancing application security.

Skills

React, Redux, Npm, Webpack, Vite, Babel, JavaScript, TypeScript, HTML, CSS, SASS, ES6, MySQL, Django, PostgreSQL

Education

MIET Engineering College | Trichy, Tamil Nadu BE Computer Science and Engineering | 04/2020

- Secured 7.55 Cgpa

Certificates

- Django - The practical guide - Udemy.
- React - The complete guide - Udemy

Workshops

- One day workshop on **Internet of things** using Raspberry Pi at Mount Zion College.
- Two days workshop on **Internet of things** conducted by Technophilia Solutions at NIT Trichy.

Projects

Design System

1. **Achieved Consistent Design Language:** Created a unified and consistent design language across your application. This involved defining design principles, color palettes, typography, spacing, and other visual elements that provided a cohesive user experience.
2. **Developed a Component Library:** Created a comprehensive library of reusable UI components. This involved developing modular and customizable components that could be easily implemented across different screens and features, promoting consistency and efficiency in development.
3. **Ensured Scalability:** Designed the UI design system with scalability in mind, allowing for easy expansion and adaptation as your application evolved. This included establishing a flexible architecture and component structure that could accommodate future growth and changing requirements.

Engineering and Productions

1. **Customized Dashboard:** Designed and developed a personalized dashboard feature that allowed users to customize their view based on their specific KPI preferences and requirements. This highly configurable dashboard increased user engagement and provided a tailored experience for each individual or team.
2. **Automated Reporting:** Implemented automated reporting functionality that generated regular reports for key stakeholders. These reports included comprehensive KPI summaries, trends analysis, and actionable insights.
3. **Real-time Alerts and Notifications:** Integrated a notification system within the web app that sent real-time alerts and notifications to relevant personnel based on predefined thresholds or anomalies detected in the KPI data from the machines.

Digital Twin Builder

1. **Seamless Data Integration:** Successful implementation of automated data source connectors ensures the smooth integration of various data sources into the Digital Twin. This achievement enables the Digital Twin to gather real-time and historical data from diverse systems and sources.
2. **Increased Data Accessibility:** By creating automated connectors, the Digital Twin becomes capable of accessing data from a wide range of sources, including sensors, IoT devices, databases, enterprise systems, and external APIs. This achievement enhances data availability, allowing the Digital Twin to have a comprehensive view of the physical system it represents.
3. **Real-Time Data Synchronization:** Automated connectors facilitate real-time data synchronization between the Digital Twin and its data sources. This achievement ensures that the Digital Twin always reflects the most up-to-date information, enabling accurate simulation, monitoring, and analysis of the physical system in real-time.

Languages

English, Tamil

Soft Skills

- Punctuality
- Smart work
- Good communication

Personal Projects

Semi Automatic Exam Seating Arrangement

This project is used for creating seating arrangement for exams using Django , React Js and Postgres. It takes Students, Subjects and Room details and create seating plan. Room allocation and mixing of students are completely automated. This project reduces 90% of manual effort and time.

Technologies used : *Django, React, Typescript and Postgres*

IOT based water monitoring system

This project uses ultrasonic sensor and raspberry-pi and an electric water pump to fill the water tank automatically when the water in the tank is low.

Technologies used : *Python and IOT*

Machine learning based DDoS detection

This project used to detect the DDoS attack in the network by using Machine Learning. Wireshark interface is used to analyze the network and Random forest classifier is used to detect the DDoS in the network.

Technologies used : Python, Scikit-Learn, Flask and Angular

Linkedin

<https://www.linkedin.com/in/kabil-r/>

Website

<https://kabil-portfolio.netlify.app/>