SUBHAM KUMAR ROY

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ABOUT ME

I am a passionate Full Stack Developer with over 1 year of experience working at DJS Automate, where I build web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js). I have hands-on experience with React Native, Next.js, and AngularJS, allowing me to create both web and mobile solutions. On the backend, I'm also comfortable working with SQL DB and integrating APIs. I enjoy building real-world applications that solve problems and deliver great user experiences. I'm always eager to learn new technologies and contribute to impactful projects.

Professional Experience

Developed a React App for Pool and Home Automation (DJS Automate)

may 2024 - current

DJS AUTOMATE   onsite

- Built a **multi-tenant React.js application** with **role-based access** to manage pool and home automation systems.
- Developed the project using **component-based architecture** with **reusable functions**, ensuring scalability and maintainability.
- Designed a **responsive UI** with **Material UI** and **Tailwind CSS**, optimized for all screen sizes.
- Integrated APIs for **authentication, authorization**, and **sensor data** management.
- Contributed to building backend APIs using **Node.js** and **Express.js** for secure user and device interactions.
- Implemented **MQTT.js** for real-time IoT device control and **Redux Toolkit** for efficient state management.
- Created **real-time dashboards** to visualize sensor metrics like water level, temperature, and pH.

Company Website & Pool Calculator (DJS Automate)

Link: https://www.djsautomate.com/

Tech Stack: Next.js, Appwrite, Tailwind CSS,

- Designed and developed a **clean, responsive company website** with a focus on intuitive **UI/UX** and seamless user interaction.
- Used **Next.js** for server-side rendering and performance optimization, ensuring fast load times and better SEO.
- Integrated **Appwrite** for backend services including **user authentication**, database handling, and real-time updates.
- Built a custom **Pool Calculator tool** to help users estimate water capacity, chemical costs, maintenance, and backwash needs.
- Applied **Tailwind CSS** for consistent styling and layout, achieving full **mobile and desktop responsiveness**.
- Maintained a **modular, scalable codebase** with reusable components for easier updates and future expansion.

Vendor Dashboard Development (P5 Digital solutions)

· Feb 2024 - May 2024 (Frontend)

P5 Digital Solutions   Online

- Developed a **responsive and user-friendly vendor dashboard** using **React.js** and **Tailwind CSS**, ensuring a clean and intuitive UI/UX.
- Integrated **Chart.js** to provide **real-time data visualization**, enabling vendors to monitor and analyze key business metrics effectively.
- Focused on building a **modular, scalable frontend** with reusable components for maintainability and future feature expansion.
- Delivered a seamless experience that enhances **vendor decision-making** through clear, actionable insights.

Vendor API For Vendor Dashboard (P5 Digital solutions)

Feb 2024 - May 2024 (Backend)

· P5 Digital Solutions

· Designed and managed **scalable, serverless APIs** using **AWS Lambda**, reducing overhead and ensuring efficient backend execution.
· Implemented **DynamoDB** for fast, reliable NoSQL data storage, optimizing performance for vendor-related operations.
· Used **S3 Bucket** for secure file storage and **API Gateway** for efficient routing and management of API endpoints.
· Built a **robust and seamless backend architecture** to support real-time data flow and enhance the overall performance of the vendor dashboard.

PERSONAL PROJECTS

FUND App Development (Backend)

– Developed a backend application called **FUND App** using **Node.js**, **Prisma ORM**, and **Express.js** to manage user accounts and roles (admin/member)
– Implemented features for users to enroll in services such as **Membership** and **Fixed Deposit** with automatic interest rate increments via **cron jobs**..
– Designed role-based access control, enhancing security and user management functionalities.
– Ensured seamless functionality and improved user experience through automated backend processes.

E-Commers (Backend)

I developed a robust backend for an Ecommerce application using Node.js, Express, MongoDB, and Mongoose.
– Developed a robust backend for an **E-commerce platform** using **Node.js**, **Express.js**, **MongoDB**, and **Mongoose** to handle core functionalities.
– Designed and implemented **RESTful APIs** for **user authentication**, **product management**, **order processing**, and **category management**, ensuring secure data flow across the system.
– Secured all APIs with **JWT-based authentication**, safeguarding user data and transactions.
– Built a dynamic **Product Catalog** feature with support for **product descriptions**, **images**, and **pricing**, enhancing the shopping experience.

· **Resume builder (Frontend)**

– Developed a user-friendly web application using React.js that allows users to input personal details directly into a predefined resume template.
– Integrated functionality for real-time preview of the resume as users fill in their information, enhancing the user experience.
– Enabled users to download the completed resume in PDF format, providing a streamlined and efficient way to create professional resumes.
– Ensured a responsive and seamless user experience across different devices and platforms.

Technical Skills and Interests

Languages: HTML, CSS, JavaScript, TypeScript, Java, C, Python, SQL
Libraries & Frameworks: React.js, Node.js, Prisma, Mongoose, Material UI, Tailwind CSS, SASS, Redux Toolkit, React Router, Redux, Express.js, Next.js, React Native, Angular.js
Cloud & Databases: MongoDB, Firebase, Appwrite, MySQL, DynamoDB, AWS (Lambda, S3, API Gateway, Route 53)
Tools: VSCode, Git, GitHub, Git Hub Actions, Postman, Figma, Node-red, MQTTClient, Vercel, Render, Netlify.
New Skills: Web Performance Optimization, AWS services, MQTT.js.
Areas of Interest: Web Design and Development, Tool Creation **Soft**
Skills: Problem Solving, Self-learning, Adaptability

EDUCATION

· **MASTER'S OF COMPUTER APPLICATION**   *2022-24*
University Vinoba Bhave University(V.B.U), Hazaribagh