

PUSHPENDRA SARASWAT

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Education

GLA University

Bachelor of Science in Computer Science

August 2020 – May 2024

Mathura, UP

Experience

SVAAK Software Pvt. Ltd

Software Engineer Intern

feb 2024-july 2024

Noida ,UP

- **Developed Full-Stack Web Applications** using the **MERN stack** (MongoDB, Express.js, React.js, Node.js), successfully integrating both front-end and back-end components to deliver dynamic, user-centric web applications.
- **Implemented Responsive UIs** by integrating **Material-UI (MUI)** with React.js, ensuring consistent design and user experience across devices, while customizing components to meet specific project requirements. .
- **Optimized Application Performance** by writing clean, maintainable, and efficient code, adhering to best practices for scalability, error handling, and code modularization.
- **Built and Managed RESTful APIs** for seamless data handling with CRUD operations, implementing secure user authentication and authorization using **JWT** for backend services.
- **Collaborated in Agile Development Teams**, utilizing tools like **Jira** for task management, and participated in code reviews, unit testing, and continuous integration to maintain high code quality throughout the development cycle.

Projects

Online Player Bidding and Auction App

November 2024

- **Developed the Backend of the Application** using **Node.js**, **Express.js**, and **MongoDB**, creating a robust, scalable API to support dynamic front-end features and efficient data management.
- **Designed and Implemented Secure User Authentication and Authorization** mechanisms using **JWT (JSON Web Tokens)** and **OAuth**, ensuring secure login, role-based access control, and data protection for all users.
- **Built Advanced CRUD Operations** for managing user data, including player profiles, auction history, and performance metrics, facilitating seamless interactions and real-time updates between the front-end and database.
- **Created Comprehensive Player Profiles** with detailed performance metrics and auction history, allowing users to view and track their data, contributing to enhanced user engagement and experience.
- **Optimized Backend Performance and Database Queries** by implementing indexing and efficient data structures in MongoDB, ensuring faster data retrieval, scalability, and minimized server load for high-traffic applications.

Library Management App

June 2024

- **Developed Responsive and Dynamic User Interfaces** using **React** and **Material-UI**, ensuring seamless user experiences across various devices with reusable components and customizable themes.
- **Implemented Role-Based Access Control (RBAC)** on both backend and frontend functionalities, enabling secure, permission-based access to resources and enhancing user management.
- **Built Core Library Management Functions**, including **book and member management**, leveraging efficient search algorithms and dynamic interfaces for real-time data retrieval and updates.
- **Automated Overdue Handling and Notifications** for library items, streamlining overdue management processes and improving operational efficiency through automated alerts and status updates.

Technical Skills

Languages: C/ C++, Java, JavaScript, HTML, CSS, DSA , Python.

Developer Tools:VS Code, Git , GitHub, Postman,

Technologies/Frameworks:React, Redux,, NodeJs, ExpressJs, MongoDB,, WebSocket, Linux , Terraform,AWS ,EC2

Extracurricular

- * Participated in the workshop of Android basics using Kotlin
- * Participated in DevOps seminar conducted by GLA University
- * Served as Joint Secretary, Student Council, leading student initiatives and facilitating communication between students and administration.