# SUDHARSAN BS

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## WORK EXPERIENCE

**Wynd Technologies Pvt Ltd**                                                           **Kozhikode, Kerala**

### *Full Stack Web Developer*

- Developed and deployed scalable, single-page web applications using **Angular** for the frontend and **Node.js with Express** for the backend.
- Developed **generic, reusable database service modules** using **Sequelize ORM** for PostgreSQL, enabling consistent and efficient CRUD operations across multiple models in the backend.
- Built dynamic, component-driven UIs in Angular using **Reactive Forms**, **RxJS**, and **Angular Material**, focusing on performance, accessibility, and clean user experience
- Designed RESTful APIs and backend services with **Express.js**, implementing business logic, middleware, and secure routing using JWT-based authentication.
- Integrated third-party services and APIs including **OAuth**, **Google/Facebook sign-in**, **Firebase**, and custom microservices to extend application functionality.
- Implemented form validation, conditional rendering, and client-side caching using RxJS and Angular's lifecycle hooks for optimal user interactions.
- Handled secure file uploads, data storage, and server-side validation in Express, working with tools like **Multer** and **express-fileupload**.
- Utilized Git for version control like **GitHub**, ensuring smooth collaboration and code management throughout the development process and **Postman** to streamline workflows and API testing.
- Conducted unit and integration testing to ensure app stability and minimize bugs before deployment.
- Implemented federated sign-in using Google and Facebook, allowing users to securely authenticate and access the application with their social media accounts.
- Effectively worked with clients to understand requirements, develop technical solutions, and deliver high-quality applications, ensuring clear communication and seamless project execution.

## EDUCATION

**GOVT. ENGINEERING COLLEGE, WAYANAD**                                               **Mananthavady, Kerala**

*B. TECH in Computer Science and Engineering*                                        *Graduation Date: Jun 2024*

## PROJECT EXPERIENCE

**Wynd Technologies Pvt Ltd**                                                                    **Kerala**

*Docx Management Services*

- Designed and developed a document automation web platform that generates government templates such as **PAN, Rental Agreements, Retirement, Reconstitution, TAN, and Partnership Deed**.
- Designed and implemented **generic reactive forms** in Angular to dynamically handle multiple form types with reusable components and validators.
- Built a **secure file upload system** in Node.js using **crypto-based encryption**, ensuring sensitive user documents are securely stored and transferred.
- Developed and integrated a **custom Chrome Extension** to capture and save user form data, enabling **auto-fill functionality on official PAN websites** for faster data entry.
- Utilized **Spring Boot with Thymeleaf** to generate auto-filled document templates. Form data submitted from the Angular frontend is passed to Thymeleaf views, which render ready-to-use official documents.
- Streamlined the document generation process by automatically inserting user-provided data into government templates, saving users from manual entry and improving accuracy.
- Integrated with backend RESTful APIs for data handling, storage, and PDF generation, enabling document preview and download functionality.
- The platform also supported **role-based access control (RBAC)**

*Mingle Miles (Mobile App Backend)*:

- Worked as the backend developer for **Mingle Miles**, a mobile application focused on secure file sharing, real-time interaction, and in-app services.
- Designed and developed **RESTful APIs using Node.js and Express**, supporting user registration, file uploads, activity logs, and real-time features.
- Built a **custom in-app notification system**, allowing users to receive actionable alerts directly within the app UI.
- Integrated **Firebase Cloud Messaging (FCM)** for push notifications and linked it with in-app notifications to ensure a unified alert experience.
- Implemented **Msg91** for OTP-based authentication, enabling secure sign-up and login workflows via mobile number verification.
- Integrated **Razorpay** to manage in-app payments and subscriptions, including webhook listeners for transaction status updates and refunds.
- Enabled secure file handling with **Multer** and optional cloud storage using **AWS S3**, including encryption and access restrictions.

## SKILLS & INTERESTS

**Skills:** JavaScript, TypeScript, Python , Node js, Express, Angular16 ,PostgreSql ,Sequelize, GitHub , Unity, Virtual Reality, Web Development

**Interests:** Communication, Sports, Volunteer work

## ACHIEVEMENTS

- Successfully deployed **Mingle Miles** mobile application to the **Google Play Store** and **Apple App Store**, achieving **500+ active users** in Canada.