Deepak Palpandi

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○ Deepak-Palpandi-developer

Experience

AuroiTech Digital Solutions Foundation , Full Stack Developer
Chennai
April 2024 – present

Aravind Eye Care System - Aravind Eye Hospital , Associate Software Engineer
Chennai
Dec 2022 – April 2024

Core Technologies

Languages: TypeScript, C#, SQL

Frontend Technologies: Angular 16+, Bootstrap, Tailwindcss, PrimeNG

Backend Technologies: ASP .NET Core (RESTful APIs)

Databases: PostgreSQL, Microsoft SQL Server, Redis

Messaging Tools: RabbitMQ and Wolverine

Development Practices: Agile/Scrum, Postman, Git and GitHub

Projects

Eyenotes 2.0 EMR Development

- **Tools Used:** Angular 16 & Angular 18, ASP .NET Core 8, Postgresql
- Revamped a monolithic EMR application (Electronic Medical Records) into a cloud-native, microservices-based architecture.
- Developed scalable and efficient RESTful APIs using .NET Core for backend services.
- Built a modern, user-friendly frontend interface using Angular.
- Improved system performance, scalability, and maintainability.
- Enabled seamless cloud deployment and enhanced integration capabilities.

Eynotes 1.0 IHMS Development

- **Tools Used:** Angular 11, ASP .NET Core 2, MSSQL
- Developed and maintained the Integrated Hospital Management System (IHMS) with a dynamic and responsive frontend using Angular 11 and a scalable backend with .NET Core 2.
- Designed and implemented efficient MSSQL database solutions, ensuring optimal data storage and retrieval for hospital operations.
- Automated CI/CD pipelines using Jenkins, streamlining the deployment process and enhancing system reliability.
- Delivered key modules such as patient management, appointment scheduling, and billing, significantly improving operational efficiency and user experience.
- Ensured system scalability and performance through rigorous testing and adherence to best practices in software development.

Drishti Mobile App Development

- **Tools Used:** .NET Core, Postgresql
- Worked on the backend development of the *Drishti* mobile application using .NET Core. Designed and implemented RESTful APIs to support robust and scalable functionality. Integrated secure authentication, efficient data processing, and optimized database interactions with PostgreSQL. Ensured high performance and reliability using

caching mechanisms like Redis. Collaborated with frontend and mobile teams to deliver a seamless user experience.

Payment Interface/Gateway

- **Tools Used:** Angular 19, .NET Core 8, Postgresql
- Developed a **centralized payment gateway** for multiple AECS products using **Angular 19**, **.NET Core 8**, and **PostgreSQL**, enabling seamless and secure **transaction processing**. Designed robust **RESTful APIs** for payment handling and real-time status tracking. Leveraged **RabbitMQ** for **asynchronous, decoupled communication** across services, ensuring scalability and fault tolerance. Built dynamic **invoice rendering** and **multi-provider payment support**, with real-time UI updates and resilient polling mechanisms. Emphasized **microservices architecture**, **database optimization**, and **extensibility** for future payment integrations.

Innovative Solutions and POCs

Hmac Authentication

- **Tools Used:** Angular 18, ASP .NET Core 8
- Developed a Proof of Concept (PoC) for secure two-way data encryption and decryption using the HmacSHA256 algorithm.
- Implemented a Crypto Service enabling IHMAC Authentication for data integrity and secure communication.
- Seamlessly integrated encryption mechanisms with Angular frontend and .NET Core 8 RESTful APIs.
- Ensured compliance with enterprise-grade security standards for sensitive data protection.
- Successfully demonstrated and delivered the PoC, highlighting its effectiveness in safeguarding data in transit.

Fastreport Report Development with .NET Web API Integration

- **Tools Used:** Fastreport, ASP .NET Core 8
- Designed and implemented a Proof of Concept (PoC) to replace SSRS with FastReport in a .NET Core 8 environment to address performance bottlenecks and reduce report generation time. Successfully integrated FastReport into existing systems, enabling dynamic and efficient report generation with improved performance metrics.

GitHub Organizations Explore

- **Tools Used:** GitHub, GitHub Actions
- Developed a Proof of Concept (PoC) for seamless integration of GitHub Organizations as a replacement for GitLab.
- Implemented GitHub Actions to design and test CI/CD pipelines for efficient automation of development workflows.
- Tested GitHub's custom package registry for dependency management and streamlined version control.
- Demonstrated improved collaboration and role-based access control for secure team connections.
- Successfully showcased GitHub's potential to enhance workflows and improve operational efficiency.

Achievements & Certification

Lean IT Developer , AuroiTech Digital Solutions Foundation	2024
Star of the Month , Aravind Eye Care System - Aravind Eye Hospital	2023
Upcoming Star , Aravind Eye Care System - Aravind Eye Hospital	2023
Full Stack Development , FITA, Chennai	Apr - Sep (2022)

Academic Profile

BE.CSE , Sethu Institute Of Technology, Madurai	2021
H.S.C , T V K Hr Sec School, Madurai	2017
S.S.L.C , T V K Hr Sec School, Madurai	2015