


Mohanavenkatesan Palaniappan

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 mohanavenkatesan

 Portfolio

WORK EXPERIENCE

Accenture

Custom Software Engineering Analyst

Dec 2023 - Present

- Contributed to a large-scale enterprise application project, collaborating across teams to deliver scalable solutions throughout the SDLC.
- Migrated and redeveloped an entire legacy application from VB.NET to C#, modernizing the codebase and improving maintainability.
- Resolved over 700+ issues and defects in staging and production, enhancing overall application stability and performance.
- Designed and implemented 100+ features using C#, .NET Core, and .NET Framework, with a focus on clean, modular architecture.
- Built rich desktop applications using WinForms and WPF (MVVM), improving user interaction and reducing support requests.
- Created and integrated RESTful Web APIs to enable smooth communication between backend services and client applications.
- Designed a simple web application using ASP.NET MVC, handling both backend logic and front-end rendering for streamlined user workflows.
- Optimized application performance through profiling, reducing load times and increasing responsiveness in WPF and .NET Core apps.
- Used Entity Framework and SQL Server for database design, query optimization, and data handling.
- Crafted responsive UIs in WPF using XAML, applying styles, templates, and custom controls.
- Managed source control and CI/CD using Azure DevOps and Git, ensuring code quality and deployment efficiency.
- Adhered to SOLID principles, design patterns (MVVM, Repository), and modular practices for scalable development.
- Delivered timely production support and deployed hotfixes with minimal downtime across WPF and API applications.
- Used Postman and Swagger for thorough testing and debugging of APIs.
- Leveraged asynchronous programming for responsive UIs and real-time data handling in WPF/.NET apps.
- Practiced Agile development, participating in sprint planning, reviews, and retrospectives.

Realtime RPA Bot based Project - RPA, Power Automate

Custom Software Engineering Associate

Sep 2022 - Dec 2023

- Automated business processes using Power Automate, reducing manual work by 60%.
- Built a RPA Bot using Power Automate and Azure Bot Services, improving support response time.
- Integrated automated workflows across platforms, ensuring seamless task execution.

PERSONAL PROJECTS

MOVPLIX (OTT Platform) – Full Stack Movie Streaming Application

React.js / Node.js / MongoDB / TMDB API / JWT / Tailwind CSS

- Built a **full-stack OTT platform** inspired by Netflix using **React.js (frontend)** and **Node.js with MongoDB (backend)**.
- Integrated **TMDB API** to fetch and display dynamic movie content including **Trending, Top Rated**, and detailed movie pages.
- Developed a responsive UI using **Tailwind CSS**, and handled routing with **React Router DOM**.
- Implemented user **authentication system** using **JWT tokens**, with secure user registration and login functionality.
- Created RESTful API endpoints with **Express.js** and **Mongoose**, storing users in **MongoDB**.
- Designed a modular component structure Header, Banner, Row, Footer, App.js, and MovieDetails page.
- Managed token-based authentication by storing JWT in and sending it in future API requests.
- Planned and built backend routes for **user authentication** (/api/auth/register, /api/auth/login).
- Configured project environment with **dotenv** and secured sensitive credentials (Mongo URI, JWT secret).

Notes Application – Web-Based Note Taking Tool

HTML / CSS / JavaScript

- Designed and developed a responsive **web-based Notes Application** using core **HTML, CSS, and JavaScript**, enabling users to create, view, and delete notes directly in the browser.
- Implemented **localStorage** functionality to persist notes across browser sessions without using a backend.
- Built an intuitive and clean user interface with **custom styling and animations**, ensuring a smooth user experience.
- Added real-time feedback for actions like adding or deleting notes for better usability.
- Applied DOM manipulation and event handling to dynamically update the note list based on user interactions.
- Ensured mobile responsiveness using CSS media queries for better accessibility on all devices.

Quiz Application – Interactive Web Quiz Platform

HTML / CSS / JavaScript

- Developed an interactive **Quiz Application** using **HTML, CSS, and JavaScript** that presents multiple-choice questions to users and tracks their score in real-time.
- Designed a responsive and user-friendly UI with dynamic transitions and styled components using custom CSS.
- Utilized JavaScript to manage **question flow**, validate answers, and display the **final score** upon quiz completion.
- Implemented logic to handle question randomization, timer-based quizzes (if applicable), and immediate feedback for selected answers.
- Leveraged **DOM manipulation** and **event listeners** to create a seamless and engaging quiz experience.
- Ensured cross-browser compatibility and mobile responsiveness for consistent performance on different devices.

SKILLS

- **Programming Languages:** C, C++, Java, C#
- **Frameworks & Technologies:** .NET Core, .NET Framework, ASP.NET MVC, WPF, WinForms, J2EE, Express.js, RESTful APIs, Web API, JWT, Mongoose
- **Frontend Development:** HTML, CSS, JavaScript, React, TypeScript, Tailwind CSS, XAML, XML, XSLT
- **Database Technologies:** SQL Server (SSMS), Oracle SQL, MongoDB, Entity Framework
- **Version Control & DevOps:** Git, Azure DevOps
- **Tools:** Eclipse, Visual Studio, Visual Studio Code, Postman, dotenv
- **Architectural Practices:** SOLID Principles, MVVM, Repository Pattern, Modular Architecture
- **Other Skills:** Debugging, Performance Optimization, Production Support, Asynchronous Programming, DOM Manipulation, Responsive Design, LocalStorage
- **RPA & Automation:** Microsoft Power Automate, Azure Bot Services
- **Competitive Coding:** LeetCode (ID: MohanP0205)

EDUCATION

Anna University

Electronics and Communication Engineering - 9.27

May 2018 - May 2022

CERTIFICATE

- Microsoft Azure Developer Associate(AZ-204)
- Microsoft Azure Fundamentals(AZ-900)
- Microsoft Azure Data Fundamentals(DP-900)

ACHIEVEMENTS

- Received 5+ recognitions and gift vouchers from Client side for excellent delivery and performance
- Received Certificate of Appreciation for outstanding performance in Client best performers Event (Mar 2025)
- Received Rank-holder Medal for securing 9.27 CGPA in the department of Electronics and Communication Engineering (Dec 2023)