

VENKAT PRATHAP

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PROFESSIONAL SUMMARY

Full Stack .NET Developer, Microsoft-certified. Expert in web, mobile, and desktop native development across healthcare, automotive, and retail. Specializes in system optimization and security.

EDUCATION

Campbellsville University

Masters in computer Science

GPA:4.0/4.0

Relevant Course work – Advanced Data Structures and Algorithms, System Design, Artificial intelligence

VIT University

Bachelors in Electronics and communications

GPA:3.5/4.0

PROFESSIONAL EXPERIENCE

Lighthouse Worldwide Solutions | Software Engineer III

Aug 2023 - Present

Project: Real-time contamination monitoring and airborne particle counters data collection devices.

- Led a team of 3 developers in creating SCADA system featuring interactive 3D graphical histogram to plot more than a million points and monitoring dashboards retrieving real time data with WebSocket protocol.
- Improved retrieval performance of data storing across 3 SQL DB's by 70% (2.49 to 0.75s) via year-based query routing.
- Built a back-end web service with JWT and Redis caching, reducing session drop rates by 24%.
- Led Solo development of AWS serverless Licensing SPA with SSO integration, reducing product licensing time by 80%.
- Architected RESTful API for IOT instrument login validation, integrating into WPF/MAUI application, boosting security 20%.
- Collaborated with service engineers to develop MAUI/Telerik UI mobile QR labeling app, used across 7 global facilities.
- Established SonarQube AI quality gates to Azure DevOps CI/CD pipelines, boosting developers code quality by 50%.

Onward Technologies | Software Engineer

Aug 2021 – July 2022

Project: Collaborated in development of containerized **Warehouse Management for Waste Management Industry**.

- Improved app's UI by redesigning 24 screens and modals, leading to 25% higher user satisfaction per analytic funnels.
- Developed RESTful APIs to serve data to the Angular front-end, successfully managing over 10k concurrent users.
- Migrated key information databases to Azure Database for cost-effective scalability, reducing annual costs by \$20k.
- Built telemetry logging system combining Serilog and Azure App Insights with correlation IDs, cutting debug time by 70%.
- Automated Let's Encrypt SSL certification using OpenSSL, HTTPS and Webhook, reducing provisioning time to 10 minutes.

Oracle Cerner Corporation | Software Engineer

Jul2019 - Aug 2021

Project: Electronic Health Record (EHR) and Patient Registration (EMR)

- Member of an Agile team to support Legacy application built using C#, C++, Oracle DB, ADO.NET.
- Optimized 30+ CCL scripts for Oracle database EHR system, resulting in 40% faster patient data retrieval and reporting.
- Improved user interface of EHR system with HIPAA compliance and unit tested possible classes with MS Test.
- Integrated voice recognition by using Win32 DLL and windows system speech low level API to modernize user experience.
- Enhanced application visualization for inpatient entry analytics by consuming JSON, FHIR API and HL7 (ADT).
- Authored classes to support COM interoperability between .NET Framework and Java platform via C++ middleware.

MJB Technology Solutions | Software Engineer

June 2016 - Jul 2019

Project: Involved in development of tool uses CO2 laser in HDI PCB industries and CAT 797F **heavy automobile**.

- Involved in uplifting of solution from VB.NET to C# (.NET 4.7.2) and resolved NuGet compatibility issues.
- Collaborated in transition of some legacy services using MS Access to PostgreSQL reducing maintenance by 90%.
- Implemented real-time communication protocol using SignalR for data exchange in WPF and WCF applications.
- Created 20+ parameterized reports using SSRS Reporting and automated report PDF/WORD export functionality.

CERTIFICATIONS, SKILLS AND INTERESTS

- Microsoft Azure Administrator – **Microsoft ID I399-5080**

- **Tech Stack:** Java, C, JavaScript, VB.Net, XML • React, XAML, Blazor, Razor, HTML5/CSS, jQuery, Bootstrap, Kendo, Ajax, .NET Core, ASP.NET, Node.js, Avalonia, Electron, Xamarin, WinForms, WCF, Rx.Net • Azure (Web Apps, App Service), AWS (Lambda, API Gateway), State Management (Redux, NgRx)
- **Architecture & Data:** MVC, MVVM/ Monolithic • Singleton, Abstract Factory, Event Aggregator, RabbitMQ • Entity Framework, Dapper, LINQ • MySQL, Azure SQL, SQL Server, SQLite, SSRS • Open Telemetry, Grafana
- **Tools & DevOps:** Docker • Git, GitHub, TFS, SVN • JIRA, DevOps • Jenkins • PowerShell • Swagger, Postman • Visual Studio • Windows, Linux, macOS