PRATHAP ALLU

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

Certifications: Microsoft Azure Administrator – Microsoft I**399-5080**

Professional Experience:

Light House Worldwide Solutions | Software Engineer III | Aug 2023 - Present
Project: Designed scalable software solutions for authentication and control of **real-time contamination monitoring and airborne particle counters data collection devices**.
Responsibilities:

- Engineered reusable components and services for Supervisory Control and Data Acquisition (SCADA) application with SQL database and implemented WebSocket architecture with JWT refresh mechanism enabling bi-directional data flow between this web, VB.Net desktop application, serving 500+ concurrent customers.
- Spearheaded the solo development of an enterprise Licensing System for multiple product lines integrating AWS services for serverless architecture and Azure AD for authentication and authorization layer resulting in 80% faster license processing, 99.9% system uptime.
- Architected multi-tenant RESTful APIs in .NET Core with Active Directory for live instrument authentication and feedback communication, integrated them into cross platform applications, enhancing and security by 50%.
- Developed dynamic data virtualization for contamination data in grid, View Models and backend services in C# in MVVM architecture for loose coupling and easier component maintainability.
- Pioneered an enterprise mobile application for internal service engineers, enabling calibration and QR code label printing across 7 global facilities and reduced label generation time by 60% offline-first architecture.
- Led migration to .NET 8.0 for WPF components, ensuring compatibility, improved performance by 30%.
- Established build validations and managed deployment slots and rollbacks for applications using Azure DevOps for CI/CD, Azure App Service for deployments, and Azure Repos for version control.

Onward Technologies | Software Engineer | Aug 2021 – July 2022
Project: Collaborated in development of containerized **Warehouse Management** for **Waste Management Industry**.
Responsibilities:

- Led enterprise bulk waste Warehouse Management System development using microservices architecture with RabbitMQ message queuing and Redis caching, implementing rate limiting and retry patterns that improved order processing reliability by 70% during peak seasons.
- Optimized warehouse operations through RESTful APIs and caching layer for mobile interface, achieving 800ms response time for 200+ concurrent operators and maintaining 99.9% order accuracy rate.
- Designed centralized logging infrastructure using Serilog and Azure Application Insights with structured logging across microservices with correlation IDs, enabling 70% faster issue diagnosis.
- Enhanced Angular 13 data table pagination performance and resolved complex CORS and cross-origin authentication issues, reducing API latency by 40% and implementing lazy loading for data.

Oracle Cerner Corporation | Software Engineer | Jul2019 - Aug 2021
Project: Electronic Health Record (EHR) and Patient Registration (EMR): Implemented advanced analytics and real-time clinical dashboards in Cerner Millennium patient care.
Responsibilities:

- Member of an Agile team to support Legacy application built using C#, C++, WinForms, Oracle DB, ADO.NET.
- Integrated voice recognition feature by using C# speech recognition library to modernize user experience.
- Enhanced WinForms appointment scheduling application that consumes FHIR API and HL7 (ADT) to display key performance indicators and interactive visualization for inpatient entry analytics.
- Improved user interface EHR systems with HIPAA compliance and unit tested possible classes with MS Test.
- Authored classes to support COM interoperability from .NET classes to Java platform via C++ middleware.
- Involved in uplifting of solution from VB.NET to C# (.NET 4.7.2) and resolved NuGet compatibility issues.

MJB Technology Solutions | Software Engineer | June 2016 - Jul 2019
Project: Involved in development of tool uses C02 laser in HDI PCB industries and CAT 797F **heavy automobile**.
Responsibilities:

- Created a full-stack prototype application with product functionalities, including real-time monitoring dashboards.
- Crafted a log analysis app with dual mode between SQLite and text logs, featuring error pattern recognition.
- Implemented real-time communication protocol using SignalR for data exchange in WPF and WCF applications.
- Created 20+ parameterized reports using SSRS Reporting, created and automated PDF export functionality.

SKILLS:
PROGRAMMING: C Sharp • ASP.NET • .Net core • Java • C •JavaScript • Typescript • Visual Basic.Net
DATABASE AND REPORTING: MySQL • Azure SQL • MS Access • SQL Server • LINQ • Entity Framework • SSRS
CLOUD: **MS Azure** (web apps, manager, Network Watcher) **AWS** (Lambda, API Gateway, Aurora, CloudWatch)
FRONTEND AND WEB: Angular • WinForms • WPF • MAUI • HTML5 • CSS • JSON • Ajax •XML •XAML • Kendo
ARCHITECTURE: MVC5 • MVVM • Monolithic • Singleton • Abstract Factory • Event Aggregator
TOOLS: Visual studio • TFS • SVN • Git • PowerShell • JIRA • Crucible • DevOps • Jenkins • Bitbucket • Docker• Postman

EDUCATION: Campbellsville University - Master's in Computer Science – GPA: 4/4
       Relevant Coursework - Advanced Data Structures and Algorithms, System Design, Artificial intelligence
       VIT University – Bachelor's in Electronics and Communications – GPA: 3.5/4