Mladen Milesic
Senior Software Engineer

Contact

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Certifications

Feb 2022 - Feb 2025
Developing Microsoft Azure Solutions - AZ-204
Microsoft
Credential ID 5AB4D7C2EE84052A

Sept 2019 - Perpetual
Redis Labs RU201 Certificate
Redis
Credential ID
82ab6600c0544280b8be3911edba044d

Skills

Languages & Frameworks: C#, Javascript, React, Redux, Blazor, HTML, CSS, SCSS, Python, VB, YAML, Entity Framework, Linq Terraform, JSON, bash, Powershell, .NET Framework 4 and up, .NetCore 3.1 and up, ASP.NET, Identity Server, OWASP, JWT

Azure: Functions, Servicebus, Blob Storage, API Management, Kubernetes, Managed Identity, Active Directory, App config, Key Vault, Container Registry, Docker, Application Insights, Queues, Topics,

Pipelines: YAML, Azure Devops, github, netlify
Database: Cosmos, Mongo, Redis, MSSQL, MySQL, Access, Active Directory

Tools: Cobertura, Nunit, Xunit, Powershell, Bash, Postman, New Relic, Octopus, Vs Code, Visual Studio

Education

August 2010 - December 2014
University of Illinois at Chicago (UIC)
Bachelor of Science in Electrical Engineering

Work History

June 2019 - January 2024
Software Engineer II - Full Stack .NET+ Azure Cloud
Coyote Logistics LLC

- Decomposed an existing monolithic application into manageable, scalable event-based microservices. (C#, .NET, Azure, React, WPF, VBnet)
- Containerized applications using Docker and employed Terraform for resource deployment to a KEDA-enabled Kubernetes cluster. (Terraform)
- Implemented robust CI/CD pipelines in Azure DevOps using (YAML)
- Enhanced code quality by integrating automated unit testing to achieve a minimum of 60% code coverage, as reported by the Cobertura pipeline tool.
- Participated in the full SDLC of several projects, including creating component diagrams, updating documentation, and testing across multiple environments leading up to production.
- Utilized Postman for API testing and generating IdentityServer access tokens

Tender Acceptance (.NET backend application):

- Developed a cloud app hosted on KEDA (Kubernetes Event-Driven Auto-scaling) that evaluates up to 60% of all incoming freight against business rules for automatic acceptance into the tendering system. (C#, .NET, DDD)
- Subscribed the app to Azure Service Bus queues and topics. (Azure)
- Implemented business rules for evaluation within a rules engine and set up policy authorization rules to control API access. (DDD)
- Integrated a MongoDB pipeline aggregation to create a dynamic view for tenders not automatically accepted, utilized in the Tender Optimization product. (Mongo Pipelines)

Cross Border (React Application with .NET Backend-For-Frontend):

- Enabled US-MX representatives to gain visual insights into freight crossing the southern US border through a React application. (.NET, React)
- Implemented a back-end for front-end to aggregate and display stop information, freight requirements, and relevant documents for decision-making.
- Updated Terraform configurations to utilize Azure API Management (APIM), allowing Mexico office access over the VPN and enabling remote workers to make effective decisions.

Tender Optimization (React Application with .NET Backend-For-Frontend):

- Developed a React application with a BFF (Backend-for-Frontend) to gather the latest rates and requirements for freight not automatically accepted. (DDD, .NET, React, Redux)
- Utilized React from create-react-app and TypeScript for the application, presented at Developer Knowledge Sharing sessions (DKS) after a successful launch.
- Ensured the BFF and APIs, developed using .NET Core, were robust, scalable, and secure.

December 2016 - May 2019
Software Engineer - Research and Development
Parata Systems (Formerly The Chudy Group, LLC - Pharmacy Workflow Solutions)

- Built applications to enhance pharmacy workflows and equipment interaction. (Winforms, WPF)
- Initiated green-field projects, worked with the product owner to capture requirements.
- Maintained existing customer applications.
- HIPPA trained

Order Splitter (.NET, Winforms application, MSSQL):

- Developed a Winforms app that contributed to securing a multi-million dollar contract. (C#, .NET)
- Crucial application that enabled pharmacies to split orders by a growing list of facilities.
- Ensured facilities were manageable and mapped to the correct drop site.
- Completed the project ahead of schedule, securing the bid.

Pill Verification Vision System (.NET framework, WPF, Cognex, OpenCV, PLC):

- Led a green-field project integrating a three-tier vision system into automated pill dispenser firmware. (C#, .NET, WPF)
- Integrated Cognex vision and OpenCV for calibration, pill count, color, and placement checks.
- Mentored team of students on a capstone project, focusing on retrieving positioning data for the pick-and-place machine from a camera to auto-package blister packs.
- Ensured the vision engine validated images and the pick and place accurately dispensed pills into blister packaging.
- Created a calibration routine process incorporating PLC's and anexternal machine learning library
- Built a web interface for image validation and batch processing. (Blazor, C#, ASP.NET)