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RAYMOND LEI

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TECHNICAL SKILLS

- **Languages:** C#, Python, JavaScript, SQL/T-SQL
- **Front-End:** Bootstrap, CSS, HTML, React
- **.Net**: Asp.Net Core MVC/Razor Page, Blazor Server
- **Azure:** Blob Storage, Cognitive Search, Function App
- **Azure DB:** Cosmos DB
- **CI/CD:** Azure DevOps Service

PROFESSIONAL EXPERIENCE

BackEnd Software Engineer– Visualutions, Inc. Remote, Teaxs **10/2023 – 07/2024**

- Wrote mini-programs primarily to correct data in Azure CosmosDB containers within the development environment.
- Developed and added a few ASP.NET Core Controller Endpoints.
- Utilized Azure CosmosDB's PointRead (an atomic read operation) to potentially reduce Request Unit (RU) consumption in a shared project.
- Attempted to achieve the same result using Azure CosmosDB's PartialUpdate but was unsuccessful.
- Tried to resolve several bugs to improve system stability.
- Tried to implement ASP.NET Core Controller PATCH Endpoints endpoint that complies with RFC 6902.
- Only was able to resolve a few bugs.
- Queried, manually modified, and executed stored procedures for quick fixes to bad data on Azure CosmosDB containers ("quick and dirty" fixes).
- Gained experience with the "Mediator" software design pattern and Swagger for API documentation.
- Assisted in replacing an outdated cryptographic system with a modern, secure alternative.
- Worked with Azure Redis for caching to minimize redundant or repetitive calls, improving performance by retrieving the same result efficiently.
- Forced to participate in Azure SignalR testing, or spamming browser tabs in a company laptop live session. (Hazing and it was not funny.)

Software Developer – MedFuse. Holmdel, NJ **07/2021 – 09/2023**

- Developed and maintained full-stack applications **(N-Tier)** using **ASP.Net Core Blazor Server,** mainly with **MudBlazor**, a **Material** design UI Control, and **Fluxor**, a state management framework for **Blazor.**
- Processed CRUD data from SQL Server using **Entity-Framework Core** and read/write **Health Care Provider (HCP**) from/to **Azure Blob Storages**. Wrote and maintained unit tests, written in **XUnit**.
- Allow users to look up HCP quickly by interfacing with both **Azure Cognitive Search**/**Elastic Search** in the **backend**.
- Wrote automation script that runs regularly, updating **Json** documents in **Azure Blob Storages** with **PowerShell**.
- Query **Medical Claims Data** from **Snowflake DB** using **CData Entity Framework Core** Provider with dynamic generated filters built with expression builder and targets dynamic schema and table during runtime**.**
- Built user authentication for the MedFuse Platform, using **Auth0 Identity Provider** Linked with **Azure AD.**
- Created a mini-App using **Azure Face API v1** to quickly identify **HCP** from photos.
- Generated **HCP** portrait images with logos, using **Skiasharp** and serve to internal users via a **Controller API Endpoint.**
- Managed and deployed multiple **Asp.Net Core** Apps running on **Azure App Service** and **IIS**.
- Bulit custom Charts using **d3.js** in **Typescript** and uses tools such as **Blazor ApexChart** and **GeoJson** for data visualization (Line Charts, Pie Charts, Maps, etc.).

Software Engineer – Sensato Cybersecurity Solutions/CloudWave. Eatontown, NJ **08/2019 – 06/2020**

- Developed and maintained a full-stack application to monitor network security threats targeting hospitals, using **ASP.Net Core MVC/Razor Pages**, **Entity-Framework Core/SQL Server**, **React Front-End**, and hosted on the **Azure Cloud**.
- Built a user claim-based, real-time notification system to alert users of cyber threats, using **React**, **Azure Function Triggers**, and **Azure SignalR**.
- Deployed **OpenVAS**, a vulnerability scanner, to the hospital's network intrusion-detection software appliances, running on **Ubuntu Linux**.
- Bridged software appliances' communication with **Azure Cloud** and **Cosmos DB**, allowing security analysts to remotely interface with **OpenVAS** within the appliances through the web.
- Communicated remotely with the software appliances, using **Azure IoT Hub Client Python SDK** and **Azure .Net SDK** (Cloud-To-Device-Method).
- Automated deployment of production code to the software appliances using deployed **Azure Agents** on **Azure DevOps Service**, Linux shell scripts, **GitHub Artifact**.

EDUCATION

Monmouth University, Long Branch, NJ **01/2018 – 05/2020**
M.S. in Computer Science, GPA: 3.83

Rutgers University, New Brunswick, NJ **09/2011 – 05/2015**
B.S. in Math and Physics, GPA: 3.15