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Raymond Lei

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Label, Linkedin, linkedin logo, Logo Icon<https://www.linkedin.com/in/raymond-lei810815> github logo, square, Logo, Hape, Animal, logotype, Github Icon<https://github.com/ewdlop>

**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* Assisted in replacing an outdated cryptographic system with a modern, secure alternative.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,** mainlywith **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 filtersbuilt withexpression builder and targets dynamicschema and tableduring runtime**.**
* Built user authentication for the MedFuse Platform, using **Auth0 Identity Provider** Linkedwith **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