

TIMOTHY VILLARAZA

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Note: An interactive, AI-powered version of this resume, which I developed and host, can be found at timothyvillaraza.azurewebsites.net

SKILLS

PROGRAMMING LANGUAGES: Python, C#, C/C++, PostgreSQL, Typescript/JavaScript, SQL Server

FRAMEWORKS: .NET, ASP.NET MVC 5, React, Django, FastAPI

CLOUD: Azure, Amazon Web Services, Terraform

PROFICIENCIES: Cloud Hosted Enterprise Applications, Full Stack Development, Backend Development, RESTful API Development

PROFESSIONAL EXPERIENCE

Slalom

Technology Advisory Services | Associate Consultant (Software Engineer)

Chicago, IL
Sep. 2022 - Aug. 2024

Back End Developer

- Developed microservices and API endpoints using Azure Functions for an enterprise application hosted on Azure.
- Built a scalable .NET microservice for a non-profit food bank, porting Tableau scripts to C# with LINQ and SQL for data aggregation and reporting. Achieved faster data calculations in early tests, laying the foundation for future dashboards and optimizing reporting.
- Refactored core .NET backend logic, replacing a rigid three-tier hierarchy with a dynamic tiering solution. This improved flexibility supports the organization's 2023-2024 growth plans by enabling the addition of new tiers.
- Enhanced SQL procedures to deduplicate recipient data, ensuring accurate tracking of tens of millions of people receiving food assistance.
- Contributed to developing Python scripts for large dataset transformations, supporting data migrations for a global fast-food chain.

Front End Developer

- Developed a WordPress location finder in PHP for a multinational agricultural client, helping customers locate bulk commodity pickup sites.
- Redesigned an internal events website in React with mobile-friendly Figma designs, enhancing accessibility for thousands of employees.
- Developed and integrated TypeScript-based front-end APIs to track interest statistics of thousands of users globally for upcoming events.

Cross-functional Skills

- Upskilled and developed AI projects as part of a company AI Upskilling Initiative, including hackathons, workshops, and AI sales assistance.
- Provided technical expertise in ongoing sales pursuits, contributing to effort and timeline estimation.

Zego

Associate Software Engineer

Chicago, IL
Aug. 2021 - May 2022

- Developed new features, enhancements, and documentation for the internal utility billing web application using ASP.NET MVC 5.
- Executed a web application styling rebrand, taking ownership of the key stories to ensure seamless alignment with the new visual identity.

Software Engineer Intern

Chicago, IL
Jun. 2021 - Aug. 2021

- Engineered quality-of-life changes and bug fixes for the internal utility billing web application using the ASP.NET MVC 5 framework.

PROJECTS

Interactive Resume Retrieval Augmented Generation (RAG) Web App

Sep. 2024

Developed a fullstack Q&A resume web application with a Python backend and ReactJS frontend. It uses Azure Functions, Terraform provisioning, OpenAI models, and PostgreSQL (PGVector), it processes uploaded resumes to deliver dynamic, GPT-4 driven responses.

Azure Video Retrieval Augmented Generation (RAG) API

Jun. 2024

Developed an AI-powered Python API on Azure to retrieve YouTube transcripts and enhance user queries. It uses a scalable three-tier architecture with session-based interactions, integrating Azure Functions, OpenAI, LangChain, PGVector, PostgreSQL, and GitHub Actions for CI/CD.

AI Activity Planner

Mar. 2023

Winner of the "Best Use of Microsoft Cloud for Your Community" Category for the MLH All In Hackathon

Built a web app in ASP.NET Core and Tailwind CSS that generates itineraries based on user interests, location, and weather using GPT-3.5-Turbo.

EDUCATION

University of Illinois Chicago

Jan. 2020 - May 2022

Bachelor of Computer Science Software Engineering Concentration

Latin Honors: Cum Laude

CERTIFICATES

AWS Certified Cloud Practitioner

Feb. 2023

Salesforce Certified AI Associate

May 2024