

Jeffrey Siu

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SKILLS

C#

.NET/.NET Core

Amazon Web Service

Python

SQL

PostgreSQL

Terraform

JavaScript/TypeScript

ReactJS

HTML/CSS

Git

TECHNICAL TOOLS

Visual Studio/Visual Studio Code

AWS Console/CLI

git CLI

AWS SDK for .NET

pgAdmin

Azure DevOps Pipeline/Repo

Docker

EDUCATION

Bachelor's Degree/Computer Engineering,

University of Maryland, College Park

2013 | College Park, United States

CERTIFICATES

Coursera IT Automation with Python By Google

PROFESSIONAL EXPERIENCE

Software Engineer, IHS Markit

02/2016 – present | Gaithersburg, United States

Entitlement Management Service | 2021

- Took on the role of release manager and coordinated end-to-end testing in the test environment.
- Wrote a RESTful API to provide CRUD functionalities to manage licensing and user-level roles and permissions with C# and .NET Core.
- Created database CRUD operation scripts for the RESTful API with PostgreSQL.
- Wrote an end-to-end test suite to verify the behavior of the RESTful API with Postman.
- Automated the CI/CD process for the RESTful API and datastore with Azure DevOps and pipelines.
- Automated the infrastructure building process with the AWS Serverless Application Model framework.

Email Tracking Tool | 2020 - 2021

- Implemented an email tracking solution with AWS Simple Email Service, Lambda function, and Kinesis Data Firehose.
- Automated the AWS infrastructure CI/CD process with Terraform and Azure pipelines.

PetroChem Wire Uploader Spot Portal | 2020 - 2021

- Implemented a .NET Core web application to create and publish proprietary editorials in PDF format.

Customer Email Validation Service | 2019 - 2020

- Created a microservice to perform user access authentication by email and session creation with .NET Core and Redis.
- Published the microservice with AWS API Gateway and Lambda function.
- Automated the AWS infrastructure CI/CD process with Terraform and Azure pipelines.

Customer Notices Web Application | 2019

- Created unit test suite for one of the microservice for the web application in Go.
- Simplified and automated the CI/CD process with building the application in Docker containers.
- Updated frontend UI to allow alternative authentication with JavaScript and .NET Core Razor Page.

Associate Software Engineer, OPIS

01/2014 – 01/2016 | Gaithersburg, United States

File System to AWS S3 Archive Application | 2015 - 2016

- Created a .NET Core console application that archived files from the company's local network drive to a designated AWS S3 bucket.
- Designed a framework for developers to extend the application to change its action and file archive requirement by adding a configuration file.

Application Host Migrations to AWS | 2015

- Migrated legacy web and console applications from the company's local network drive to a host of EC2 instances.

Legacy Console Application Improvement | 2013 - 2015

- Rewrote legacy Visual Basic console applications with .NET Core
- Add unit test suites to .NET/.NET Core console applications with XUnit and Moq