Robert W. Herber

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Experience

Senior Software Engineer | Microsoft
March 2022 - Present
- Led a team that designed and developed a system that scans Microsoft source code for security violations and, using internal AI tools, creates automatic pull requests fixing the security violations. This system has created thousands of pull requests to date; saving tens of thousands developer hours
- Worked as part of the Azure team to build out a system (using C# .Net and React) that helps Microsoft measure track governance, compliance, and security requirements for every service across the company
- Built a syncing system using .Net and Hangfire on Azure that automatically creates and updates work items in Azure DevOps for engineers across the company for security and compliance violations. This has resulted in a roughly 20% reduction in resolution time for the synced violations

Software Engineering Lead | MGM Resorts International
July 2021 – March 2022
- Led a team of 15 engineers to develop and maintain many services written in C# .NET in Azure and NodeJS in AWS to facilitate MGM's contactless digital check in process
- Delivered digital check in's first monetization feature, reservations addons, generating $1.3M in the first two months

Senior Software Engineer | MGM Resorts International
Jan 2020 – July 2021
- Delivered core backend services for contactless digital check in 6 months ahead of schedule
- Architected and implemented MGM's GraphQL layer using Apollo Server (NodeJS) and TypeScript
- Designed the GraphQL service to scale up and out to handle millions of requests per day using AWS ECS (Docker) and serverless Lambda functions
- Built CICD pipelines using GitHub Actions, Azure DevOps, Terraform, and Azure Resource Manager

Applications Developer II | Centuri Group
March 2019 – Jan 2020
- Led the initiative to convert our back-end web services to .NET Core from PHP, leading to up to 100% speed increases on HTTP requests and resulting in better integration with our otherwise Microsoft stack
- Developed and maintained many RESTful APIs using SlimPHP (PHP), and .NET Core (C#)
- Developed and maintained many client-side applications using TypeScript, JavaScript, AngularJS, and Vue

Chemical, Biological, Radiological and Nuclear Specialist | U.S. Army Reserve
Nov 2009 - Nov 2017
- Sergeant directly in charge of managing, supervising, leading, and training 4 people for HAZMAT missions

Education

Kennesaw State University | Kennesaw, GA
- Master of Science in Software Engineering, 4.0 GPA *Dec 2018*
- Graduate Certificate in Computer Science Foundations, 4.0 GPA *Dec 2016*

University of West Georgia | Carrollton, GA
- Bachelor of Science in Criminology**, 3.98 cumulative GPA, 4.0 major GPA *April 2015*

Skills

Languages: C#, TypeScript, JavaScript, PHP, Java, SQL, KQL, HTML, CSS
Cloud Providers: Azure, AWS
Tools, Frameworks, Technologies, and Processes: Docker, GraphQL, Git, .NET Core, NodeJS, Apollo, GitHub Actions, Azure DevOps, ReactJS, Angular, Vue.js, Visual Studio Code, Visual Studio, Unity, MySQL, MS SQL Server, RESTful APIs, Agile, Scrum, UML modeling, NUnit, Jest, Design Patterns, OOP, Terraform, Azure Resource Manager
Soft Skills: Leadership, teamwork, teambuilding, management, collaboration, written and verbal communication