



Robert W. Herber

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Experience

Software Engineering Lead | MGM Resorts International

July 2021 – Present

- 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
- Designed and developed a cloud housekeeping service that remains in sync with the on-premises source system while providing a fast, highly scalable, and highly available service to clients

Senior Software Engineer | MGM Resorts International

Jan 2020 – July 2021

- Delivered core backend services for contactless digital check in 6 months ahead of schedule resulting in helping the company reduce operational loss from \$300M per month to \$100M per month
- Architected and implemented MGM's GraphQL layer using Apollo Server (NodeJS) and TypeScript on top of many REST services to provide a unified, easy to consume API for client applications
- 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 to automate testing, building, and deploying to production and non-production environments

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

Software Developer Contractor | Wellborn Cabinets

Aug 2016 – Jan 2019

- Maintained and developed many CRUD applications to collect, analyze, and display business data
- Created a room designing program that allows users to design a room to their liking

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, HTML, CSS

Cloud Providers: Azure, AWS

Tools, Frameworks, Technologies, and Processes: Docker, GraphQL, Git, .NET Core, NodeJS, Apollo, GitHub Actions, Azure DevOps, SlimPHP, 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

