

Matheus Barros

✉ matheusbarros1305@gmail.com ☎ (786) 380-5423 🌐 in/matheusbarros 🖥 matheusbarros.dev

WORK EXPERIENCE

Software Engineer *CHA Consulting, Inc. – Miami, FL*

June 2022 - Present

- Led the design and development of a Capital Plan Management System using C# .NET, Entity Framework, React, enhancing how data is captured, organized and reported for school infrastructure projects.
- Developed a Signal Timing Dashboard with Django, React, and PostgreSQL to visualize and monitor real-time traffic data, improving operational decisions for traffic engineers.
- Built a Work Order and Equipment Ticketing System with C# .NET and Angular, designing robust RESTful APIs to manage service requests and asset workflows, improving internal efficiency
- Worked closely with clients to gather requirements and create a development plan using Agile methodologies.
- Designed and managed Azure Cloud infrastructure, enhancing security, organizing resources by groups, and streamlining CI/CD pipelines for external teams.
- Automated reporting workflows, reducing client time by 95% and significantly increasing operational efficiency.
- Developed and automated ETL processes with Azure Data Factory, reducing costs by over 30% through efficient network data extraction.

Software Engineer *ESGreen – Brazil*

October 2022 - June 2024

- Led the full-stack development of a questionnaire application using C#/.NET, Entity Framework, Angular, and Bootstrap, ensuring seamless front-to-backend integration.
- Directed the full software development lifecycle, from requirements gathering to deployment, optimizing performance and scalability, which led to acquiring the company's first clients.
- Collaborated with non-technical teams to translate their requirements into actionable technical specifications, streamlining development and solution implementation.

Software Developer *Palm Beach Accountable Care Organization – West Palm Beach, FL*

Feb 2020 - June 2022

- Maintained an Android application by migrating legacy Java code to Kotlin, implementing MVVM architecture with Jetpack Compose, and reducing crash rates by 70% through improved code stability and structure.
- Optimized stored procedures, improving feature efficiency by 95–97% and cutting execution time from 120 seconds to 4 seconds.
- Built high-performance APIs and interactive webpages using C# .NET, HTML, CSS, and JavaScript, achieving a 90% reduction in reported bugs through rigorous testing and debugging.

EDUCATION

Master of Science in Computer Science | Florida International University | Miami, FL | Graduated: 2020

Bachelor of Science in Computer Science | Florida International University | Miami, FL | Graduated: 2018

ACHIEVEMENTS

Certifications: Microsoft Azure Cloud Fundamentals (2024), Google Agile Fundamentals (2024)

Publication: Data-Driven Decision Support Platform for Selection of Intersections for Traffic Signal Control (2023)

SKILLS

C#, .NET Core, ReactJS, Angular, HTML/CSS, TypeScript, JavaScript, Tailwind, Bootstrap, Python, Django, Java, Kotlin, SQL, PostgreSQL, MSSQL, Git, Azure, Docker, Kubernetes, CI/CD, Power BI, Agile, Scrum