# FREDERICK MCCOLLUM

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## SUMMARY

I am a well-organized leader with an incredible work ethic and a learn-it-all mindset. I can learn anything, and I will grow every day. I bring a sense of humor and contagious, positive energy to my team. Communication is my greatest strength, and I honestly enjoy writing documentation. I have an unrivaled passion for technology, learning, solving problems, and building valuable relationships. If you give me a chance, I will be a respected leader within 6 months of joining your team.

## EDUCATION

**M.Sc. in Business Analytics** | University of Dallas | 4.0 GPA.
**B.B.A. in Information Systems**, **Mathematics & Finance** | Schreiner University | Summa Cum Laude | 3.97 GPA
**Professional Certificate in Computer Science for Web Development** | Harvard University (HarvardX)

## TECHNOLOGIES & SKILLS

**Languages:** C#, Python, JavaScript, SQL, C, R, SAS, JSON, YAML
**Frameworks & Tools:** Git, Django, Node.js, .NET, ASP.NET, React.js, Redux, Docker, Terraform
**Databases:** Microsoft SQL Server, PostgreSQL, Azure Cosmos DB, Mongo DB, Redis, SQLite
**Platforms:** GitHub, Azure DevOps, Azure, Google Cloud Platform (GCP), Amazon Web Services (AWS), Dynamics 365
**Concepts:** Unit Testing, Microservices, REST APIs, Cloud Development, Machine Learning, Business/Data Analytics
**Soft Skills:** Communication & Public Speaking, Time Management, Quick Learner, Mentoring, Interviewing & Hiring

## EXPERIENCE

**Software Engineer II** | H-E-B | May 2021 – Present
- Won a "Combo Loco" collaboration award for teamwork, communication, mentorship, and "heart for people."
- Engineer and support 10+ business-critical applications using modern technologies in a 24/7 environment.
- Designed & implemented a cloud-native, microservices architecture to serve ML models via REST API.
- Improved the performance of a single-page web application and REST API by over 75%.

**Software Engineer** | Microsoft | Sept. 2020 – Apr. 2021
- Implemented over 5+ build and release pipelines in Azure DevOps to streamline the team's CI/CD process.
- Architected and engineered a resilient REST API and front-end application using Azure technologies.
- Spearheaded organization-wide improvement in authentication and secure development practices.

**Software Developer Consultant** | Microsoft | May 2019 – Sept. 2020
- Developed and optimized cloud-based enterprise applications to improve user efficiency by over 53%.
- Investigated and resolved memory leak issues in over 22 distributed web applications and REST APIs.
- Lead developer on a project that Won a Microsoft "Better Together" award for going above and beyond.

**Software Developer Support Engineer** | Microsoft | July 2017 – May 2019
- Achieved consistent customer satisfaction ratings of over 90%.
- Recognized as a subject matter expert (SME) and team lead in software developer (SDK) topics.
- Expertly guided enterprise customers in development, debugging, and optimization of JavaScript and C# code.

## PERSONAL PROJECTS

**Unlocking Climate Solutions:** Performed an analysis of climate survey data using Python, PostgreSQL, and Amazon Web Services (AWS). In order to help guide this project, I developed appropriate business questions and goals.

**"MovieRater" Web Application:** Web app that allows users to login, search/add movies to the app, add/view user reviews, and view the average review score for each movie. Created using Django (Python) and React.js (JavaScript).

*View more at erickmccollum.com.*

## VOLUNTEER & ORGANIZATIONS

Open-Source Software Contributor | Microsoft Aspire Ambassador | Schreiner University Ambassador | CAST Tech High School Mentor | H-E-B "Helping Here" Volunteer