

FREDERICK MCCOLLUM

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EDUCATION

M.Sc., Business Analytics. University of Dallas. 2021. 4.0 GPA.

B.B.A., Information Systems, Mathematics & Finance. Schreiner University. 2017. Summa Cum Laude, 3.97 GPA.

Professional Certificate, Computer Science for Web Development. HarvardX. 2020.

SKILLS

Business & Data Analytics, Software Development, Communication & Public Speaking, Time Management, Quick Learner, C#, Python, JavaScript, SQL, ASP.NET, Django, React.js, Redux, Node.js, R, Git, Dynamics 365, SAS, Azure, Google Cloud Platform (GCP), Amazon Web Services (AWS), Machine Learning, REST APIs, Microservices, Cloud Development.

EXPERIENCE

H-E-B. May 2021 – Present.

Software Engineer II. May 2021 – Present.

- Engineer business critical applications using C#, JavaScript, SQL, ASP.NET, Node.js, React.js, Redux, Git, & more.
- Led a small engineering team in the design and development of a performant single-page application and API.
- Mentor and support junior developers.
- Contribute to analysis and planning of cloud implementation and migration.
- Improved the performance of a single-page application and API by over 75%.

Microsoft. July 2017 – April 2021.

Software Engineer. Sept. 2020 – Present.

- Utilize Azure technologies such as Functions, App Service, Logic Apps, etc. to build cloud-scale apps and services.
- Interact with and build powerful APIs using modern technologies and programming languages.
- Coordinated organization-wide improvement in essential software development fundamentals and practices.

Software Developer Consultant. May 2019 – Sept. 2020.

- Developed and optimized software using JavaScript, C#, .NET, and ASP.NET to improve efficiency by over 53%.
- Investigated and resolved memory leak issues in over 22 ASP.NET web applications and APIs.
- Won a Microsoft #BetterTogether award for going above and beyond.
- Maintained source control for teams of 10+ engineers using tools such as Git, GitHub, and Azure DevOps.
- Led content development, including 4+ organization-wide newsletters and 10+ hours of video content.
- Managed a team of 20+ contributors to improve organization culture, networking, and engagement.
- Influenced team growth by mentoring 8+ team members and participating in 5+ interviews and hiring events.

Software Developer Support Engineer. July 2017 – May 2019.

- Maintained customer satisfaction ratings of over 90%.
- Recognized as a subject matter expert (SME) in software developer (SDK) topics.
- Expertly guided enterprise customers in development, debugging, and optimization of JavaScript and C# code.

PROJECTS

Unlocking Climate Solutions. I 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 www.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.