

# Alex McConnell

Analytical and experienced engineer seeking a role that supports creative thinking and an endless desire to learn new technologies. A positive attitude and growth-mindset fuel my ambition to be an exceptional software engineer, teammate, and human being.

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## Employment

**Harris, Mackessy & Brennan, Inc.** - Columbus, OH / Remote

January 2018 - Present

### Software Consultant - eGrants Product

- Designed and developed an integration between the Alaska Department of Education's accounting and eGrants systems to send batch grant payment information via SFTP to keep both systems in sync and to streamline the state's accounting processes.
- Led exploratory project to modernize the method of reporting used in eGrants applications from SQL Server Reporting Services to embedded Power BI reports by building a prototype financial dashboard that was ultimately used to win future eGrants contracts.
- One of two main developer contacts for the Arizona State Department of Education responsible for writing system enhancement quotes, implementing system changes based federal education legislation changes, and leading client meetings.

### Associate Software Consultant - eGrants Product

- Responsible for building grant application data collection pages and additional tools using ASP.NET Web Forms, JavaScript, and SQL.

**Mettler-Toledo International Inc.** - Columbus, OH

February 2015 - July 2017

### SAP Data Governance Process Champion

- Consulted both technical and functional key users during concurrent SAP data migration projects globally - often traveling internationally to project locations to lead workshops and data-mapping sessions.
- Defined, prioritized, and tested functional requirements for in-house ETL software based on knowledge of the company's database design and data governance policies.

### Engineering Associate

- Completed a well-regarded 12-month rotational program within Mettler-Toledo that affords new graduate engineers opportunities to explore fields within or outside engineering through meaningful projects.

## Education

**The Ohio State University**

August 2010 - December 2014

B.S. Industrial & Systems Engineering

**Tech Elevator - Columbus Campus**

September 2017 - December 2017

14-week C# / .NET coding bootcamp graduate

## Projects

**Validaid, Inc.** - validaid.org

May 2020 - November 2020

- Architected, built, and deployed an open-beta React / Apollo GraphQL application that facilitates would-be charitable donors with finding charities whose mission and projects align with that of the user in a team of three.
- Project was awarded over \$100,000 in grant money by the U.K. government for future development efforts.
- Implemented user donation functionality with Stripe, custom image uploading with react-dropzone and cloudinary, and user authorization / authentication with role-level security among many other features.

**That's What Scranton Said** - thatswhatscrantonsaid.com

- React application for searching quotes from The Office tv show that utilizes TypeScript, Tailwind CSS, and Fuse.js for fuzzy search.

## Technologies

### Languages, Frameworks, and ORMs

- C#, JavaScript / TypeScript, HTML, CSS, PowerShell, SQL, GraphQL, React, Next.js, Apollo Client / Server, Tailwind CSS, Node.js, Express.js, ASP.NET MVC, ASP.NET Web Forms, TypeORM, Prisma

### Tools

- Visual Studio 2017/2019, Visual Studio Code, SQL Server Management Studio, Git, Microsoft Power BI, Chrome Dev Tools