

Matthew Gray

Software Developer

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[GitHub Portfolio](#) | [GitHub Repository](#)

Former Chemical Engineer transitioning to a C#/.NET developer role with extensive experience in engineering design, grant procurement, and now creating intuitive full stack applications in team-based and independent settings. Highly adept at navigating complex situations with exceptional problem solving skills, I look forward to combining my technical skills with my engineering experience to create innovative, useful, and elegant programs for consumers.

Education

Certificate, Software Development

December 2022

We Can Code IT

Cleveland, OH

Doctor of Philosophy (Ph.D.), Chemical Engineering

June 2005

Dartmouth College

Hanover, NH

Bachelor of Arts, Chemistry

May 2000

Bard College at Simon's Rock

Great Barrington, MA

Technical Inventory

Languages: C#, .NET Core, JavaScript, HTML, CSS, SQL

Technical Skills: TDD, OOP, MVC, Agile (Scrum), JSON, REST APIs, Responsive Design Web/Mobile, CI/CD (GitHub, Git), Relational Databases, Entity Framework Core, Webpack, ASP.NET & ASP.NET Core, Bootstrap, React

Project Experience

API of Choice: C#, Visual Studio, Git, Github, Gitbash, REST APIs, Entity Framework Core, OOP

- Used Microsoft Entity Framework to create an API that utilizes get, put, post, and delete functions in the API's controller.

Virtual Pet: C#, Visual Studio, Git, Github, Gitbash, TDD, OOP

- In a team setting, designed a console application allowing users to create and interact with personal virtual pets.

Review Site: C#, Visual Studio, Entity Framework Core, Git, Github, Gitbash, TDD, OOP

- In a team setting, designed a website to showcase multiple products with product reviews.

Donut Maker: Javascript, Git, Github, Gitbash

- Created an interactive game to allow the user to prepare donuts and purchase auto-clickers and multipliers.

Profile Page: HTML, Javascript, CSS, Git, Github, Gitbash

- Created a personal profile website.

Client MVC: C#, Visual Studio, REST APIs, React, Git, Github, Gitbash

- Created a client MVC Application to utilize CRUD functions in API.

WMS Inventory: C#, Visual Studio, REST APIs, Entity Framework Core, HTML, CSS, Javascript, Git, Github, Gitbash, OOP

- Created a personal inventory application to track the locations of items in storage.

Selected Professional Experience

Field Services Technician

July 2023 - current

TekSystems

Cleveland, OH

- Provided on demand support to clients at University Hospitals during transition of their electronic health record system.
- Troubleshooted login issues for clients.
- Utilized proper escalation pathways for problems that required a higher authorization level

Senior Advanced Process Engineer

January 2014 - November 2016

*Ciris Inc.**Denver, CO*

- Performed engineering design including evaluation of capital and operating costs of new process plants using ASPEN software.
- Screened multiple separations technologies for the purification of organic acids.
- Performed chromatographic pulses, ion exchange, and membrane filtration at bench and pilot scales.

Senior Engineer

October 2008 - July 2013

*Virent, Inc.**Madison, WI*

- Performed first and second generation biomass feedstock evaluations for catalytic conversion to hydrocarbon fuels and chemicals.
- Conducted ion exchange, ion exclusion, and membrane filtration for laboratory and pilot development of feed purification systems.
- Appointed Virent's in-house expert on biomass grants. Helped secure 7.4 million dollars (in aggregate) of funding with three U.S. DOE grants.

Additional Work History**Crew Member**

May 2022-August 2022

*Raising Cane's Chicken Fingers**Mayfield Heights, OH***Cashier**

May 2021-October 2021

*Giant Eagle**Lyndhurst, OH***Front End Worker**

October 2020 - May 2021

*Whole Foods Market**University Heights, OH***Preventative Health Advisor**

July 2019 - January 2020

*Lifeline Screening**Independence, OH***Food Preparation**

Marc 2019 - July 2019

*Flour Italian Kitchen**Moreland Hills, OH***Back of House Staff**

August 2017 - January 2019

*LGC Hospitality**Denver, CO*