

# Jacob Fedrigo

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**Objective:** Software engineer with more than 5 years of experience in full-stack web development and enterprise software. Specializes in C#/.NET, cloud services (Azure/AWS), CI/CD, and test-driven development. Focused on crafting concise designs, writing high-performance code, and delivering reliable production support by enhancing observability practices.

## Experience

### Hagerty

*Software Engineer*

2024 – current

- Implemented C#/.NET8 web services to facilitate data exchange between external clients and internal systems.
- Automated deployments across multiple environments via CI/CD pipelines and Infrastructure as Code (IaC).
- Engineered a customer digital account conversion solution, prioritizing performance and test-driven development.
- Resolved production incidents through on-call support, deploying swift .NET and SQL fixes to minimize downtime.
- Mentored junior engineers on object-oriented design, test-driven development (TDD), and observability.

### Planned Career Sabbatical

*Family Relocation, Bicycle Travel, and Professional Development*

2023 (4 months)

- Toured by bicycle across Europe and the American Northeast and Midwest.
- Consistently volunteered at the Playhouse Square Performing Arts Center in Cleveland, Ohio.
- Completed courses C++, Swift, and Rust and engaged in personal projects to refine my development skills.

### Epic Systems

*Software Developer on Value-Based Analytics*

2021 – 2023

- Designed and developed scheduled tasks for Azure-to-Azure communication and data transfer using C#, multiple Azure SDKs, and blob storage accounts.
- Implemented updates to analytics dashboards, collaborated with customers to identify and develop useful features, and improved performance by 2x.
- Led the project for the release of the Value-Based Performance Management product, developing a unit-testable release code structure, performance testing the product, and coordinating with division managers to ensure a smooth rollout.
- Swiftly developed critical fixes for bugs impacting hospitals around the world, using M, C#, .NET, and SQL.
- Reviewed over 130 projects, focusing on performance, code coverage, and security.

### USAA Real Estate

*Software Development intern in Business Applications*

2019 – 2020

- Developed an app facilitating donations to charity and automated debit of accounts using an Angular front-end and a Web API backend with .NET Core.
- Organized and led meetings with 5 departments to develop requirements for dataflow, security, and the user interface.
- Integrated the application with Microsoft Azure, as the first project on the new platform for the corporation.

## Education

### University of Michigan, Ann Arbor, MI

*Bachelor of Science in Computer Science, Minor in Philosophy*

2016 - 2020

Relevant Coursework

- EECS 482 (Operating Systems), EECS 485 (Web Databases & Information Systems), EECS 492 (Artificial Intelligence), EECS 445 (Machine Learning), EECS 376 (Foundations of Computer Science), EECS 370 (Computer Organization), EECS 281/280 (Data Structures & Algorithms), EECS 203 (Discrete Mathematics), MATH 214 (Linear Algebra), STATS 250 (Statistics), PHIL 361 (Ethics), PHIL 340 (Minds and Machines), EECS 494 (Game Design)

## Project Experience

### Network File Server

- Implemented a multi-threaded, secure network file server in C++ which communicated between client and file server using socket programming to create and maintain a secure file system.

### 3D Strategy Fishing Game

- Created a fully-featured strategy fishing game in C# using Unity which has real-world boat movement, a robust fishing mechanic, and dynamic object interaction.

### Map Reduce Server

- Coded a multi-process, multi-thread MapReduce server which could execute any user-submitted job with an arbitrary number of workers using UDP and TCP for heartbeat messages and worker orders respectively.

## Skills

**Technical:** C#, C++, Python, C, Terraform, AWS, Rust, SQL, Swift, Unity, HTML, LaTeX, Flask, Angular, Typescript, MUMPS

**Hobbies:** Cyclist, Bikepacker, Musician, Photographer, Diver, Surfer, and Hand Sewing hobbyist

**Volunteer:** Playhouse Square Performing Arts Center **Recent Reading List:** The Wheel of Time series, Philosophy of Software Design