

FABIO YIN

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Portfolio: <https://www.fabioyin.com/> | GitHub: <https://github.com/uscliyin>

SUMMARY

Software Engineer with about 4 years of experience delivering scalable, high-performance backend systems using C#, .NET, and SQL Server. Demonstrated impact by boosting API throughput by 30% and database performance by 20% through async programming, query optimization, and clean architecture. Developed microservices with JWT, deployed via Docker and Azure. Also experienced in light frontend development with React.js in full-stack Agile environments.

EDUCATION

Master of Science, Analytics (Focus: Python Programming & Data Analytics)

Jan 2021-Dec 2022

University of Southern California, CA, USA

GPA: 3.70/4.0

Bachelor of Engineering, Software Engineering

Sep 2016-Jun 2020

Chongqing University of Posts and Telecommunications, Chongqing, China

GPA: 3.49/4.0 (Top 5%)

SKILLS

- **Languages & Frameworks:** C#, Python, SQL, ASP.NET Core, ASP.NET MVC, Razor Pages, RESTful API, SOAP/XML Web Services, WCF, WinForms, WPF, LINQ, Entity Framework Core
- **Architecture & System Design:** OOP, SOLID Principles, Microservices, JWT Authentication & Authorization, Asynchronous Programming, Distributed Systems
- **Database & Data Engineering:** SQL Server, T-SQL, Stored Procedures, Indexing, Query Optimization, Normalization, ETL Pipelines, Data Aggregation
- **DevOps & Cloud:** Azure App Services, Azure Blob Storage, Azure DevOps (CI/CD), GitHub Actions, Docker, SQL Server Agent, Windows Server, IIS
- **Testing & Tools:** MS Test, Moq, Postman, Swagger, Git & GitHub, SVN, Visual Studio 2008/2010/2019/2022, Agile/Scrum
- **Front-End (Basic):** React.js (useState, useEffect, useRef), HTML5, CSS3, JavaScript
- **Data & Analytics:** Pandas, NumPy, Apache Airflow, XPath, Web Scraping, Data Cleaning

WORK EXPERIENCE

MES Engineer (Software Engineer) | Jing-Jin Electric North America, MI, USA

02/2024-Present

Manufacturing Execution System | C#, ASP.NET MVC, RESTful API, SOAP/XML Web Services, WCF, WinForms, WPF, DevExpress, SQL Server, Stored Procedures, Docker, Multithreading, SVN, LINQ, HTML/CSS/JS

- Enhanced the MES system by developing additional user-focused features using C#, .NET MVC, WPF, WCF, DevExpress, Stored Procedures, and SQL Server, increasing **usability** and supporting **3 new production workflows**, which boosted productivity by **15%**.
- Built a **multithreaded XML parser in C#** to process production equipment data, **reducing parsing time by 40%**.
- Consumed supplier data via **ASP.NET SOAP/XML Web Services and RESTful APIs**, enhancing stability through **retry logic, exception handling, and structured logging** for consistent and fault-tolerant system integration.
- **Automated database backups** using **SQL Server Agent**, replicating to back-up server for disaster recovery and test environments.
- **Optimized SQL performance** by implementing **parameterized queries**, indexing, and query tuning—**reducing execution time by ~20%** and mitigating SQL injection risks.
- Packaged backend tools into **Docker containers** for simplified local testing and consistent runtime behavior across environments.

Full Stack Developer (Full-Time Intern) | Antra, VA, USA

03/2023-02/2024

Human Resource System | C#, ASP.NET Core Web API, Azure, React.js, Entity Framework Core, Microservices, T-SQL, SQL Server, JWT Auth, Visual Studio, Git, MOQ, MS test, Agile, CI/CD

- Designed and maintained **RESTful backend APIs** using **ASP.NET Core Web API** within a **microservices-based HR system**, with strong focus on performance, scalability, and clean architecture.
- **Boosted API throughput by 30%** via **async/await refactoring, LINQ-based DTO shaping, SQL indexing**, and implementing **Redis caching, pagination, and query filtering** to reduce latency.
- Implemented **JWT-based Authentication & Authorization**, ensuring secure role-based access to backend endpoints.
- Deployed backend services to **Azure App Services** with **Blob Storage**, enabling **autoscaling, asynchronous messaging, and fault tolerance**; automated **CI/CD pipelines** via **Azure DevOps**.
- Achieved **80%+ unit test coverage** for APIs using **MS Test** and **Moq**, improving **code reliability** and **deployment confidence**.
- Provided **light React.js integration support** using **useState, useEffect, and useRef** to connect APIs with **UI components**.
- Participated in **Agile/Scrum sprints** and ceremonies (**planning, stand-ups, retrospectives**), collaborating with **PMs, QA, and DevOps** to clarify requirements and ensure on-time delivery.

Data Engineer (Intern) | MetaNovas Biotech, CA, USA

03/2022-12/2022

- Developed a **Python-based ETL Web Scraping pipeline** using **lxml, XPath, Multithreading, and Apache Airflow** to automate the **extraction, cleaning, and upload of over 30,000 daily medicine records** to **AWS S3**. Improved data quality and pipeline stability, enabling the data science team to **accelerate model training by ~20%**.

Software Developer | Chongqing Chaomei Advanced Lubricating Oil, Chongqing, China

03/2019-01/2021

- Contributed to an internal **CRM system** using **C#, ASP.NET MVC Core, and SQL Server**, with a focus on backend performance. Built **fully asynchronous Web APIs** with **centralized error-handling middleware**, enhancing **system throughput and stability**. Optimized **SQL queries** via **indexing and normalization (~30% latency reduction)** and supported basic UI features with **Razor Pages** and **JavaScript**.