

Gavin Shi

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EDUCATION

The Ohio State University

Columbus, OH

Bachelor of Science in Computer Science and Engineering, Minor in Mathematics

Aug. 2022 - May 2026

GPA: 3.70

WORK EXPERIENCE

Data Ingestion & Acquisition Intern

Jun. 2025 - Aug. 2025

COTA Healthcare

Remote

- Fully modeled and automated an error logging process to group and report millions of errors during warehousing
- Developed and optimized pipelines to extract, transform, and load clinical datasets into centralized warehouses
- Implemented quality checks and validation rules to ensure the accuracy and completeness of ingested records
- Collaborated with teams to troubleshoot ingestion bottlenecks and improve the efficiency of data acquisition
- Produced documentation and monitoring dashboards to track pipeline health and errors across data ingestion runs

Software Engineering Intern

May 2024 - Aug. 2024

IBM

Columbus, OH

- Architected and deployed cloud-based solutions on Microsoft Azure, leveraging Azure Functions, Cosmos DB, and Azure DevOps for CI/CD
- Contributed to full-stack web development with React and .NET Core, building responsive UIs and RESTful APIs
- Developed data analytics pipelines and dashboards from client datasets using SQL and cloud data services
- Collaborated with design, engineering, and client stakeholders in an Agile environment to deliver solutions on time

Student Teaching Assistant

Aug. 2023 - May 2026

The Ohio State University

Columbus, OH

- Graded assignments programmed in C++ and hosted office hours to tutor and assist over 1000 students

PROJECTS

Prestige | *Swift, HTML/CSS, TypeScript, C#, SQL, Azure DevOps, Lucidchart, Figma*

May 2024 - Present

- Modeled and developed a full-stack application that aggregates Spotify data for users, allows users to rate music intuitively, and displays rankings based on listening time for tracks, albums, and artists
- Created a RESTful API that populates the web application with data from the SQL database
- Developed Azure timer trigger functions to parse and store listening data periodically in a NoSQL database, and a Cosmos DB trigger function to transform data between the NoSQL and SQL databases
- Implemented authentication with Auth0 to securely access a user's Spotify data from the web application
- Created a CI/CD pipeline to automate the building, testing, and deployment of new commits and features
- Modeled business logic and database models with ER diagrams using Lucidchart
- Utilized Azure DevOps to organize work using stories and boards

TECHNICAL SKILLS

Programming Experience

- Full-stack development with React and ASP.NET Core, and similarly with Ruby on Rails
- Azure DevOps, CI/CD pipelines, SQL and NoSQL databases, and Agile methodologies
- GDB debugger in C and x86-64 assembly
- Modeling and testing 3D objects in SolidWorks and graphing datasets with MATLAB and R
- Machine learning models and computer vision with Python and PyTorch

Programming Languages: Java, Python, C, C++, HTML/CSS, JavaScript, C#, Ruby, SQL, R

Frameworks: React, Node.js, jQuery, ASP.NET Core, Ruby on Rails

Developer Tools: Git, GitHub, Azure DevOps, Figma, Notebook LLM, Slack, Jira/Trello

Libraries: pandas, NumPy, Scikit-learn, Matplotlib