

Zach Wilson

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EDUCATION

Bachelor of Science in Computer Science | Cum Laude

University of Utah, John & Marcia Price College of Engineering | Salt Lake City, UT | May 2025

Relevant Coursework: Algorithms, Databases, Computer Systems, Computer Organization, Computer Security, Models of Computation, Operating Systems, Computer Networks, Data Structures

EXPERIENCE

Research Intern | May 2024 – Present

Georgia Tech Research Institute | Hill AFB, UT

- Supported the Air Force's [Live Mission Operations Capability \(LMOC\)](#) program, developing .NET/C# solutions and worked directly with product owners and Air Force leadership to refine requirements.
- Built a document indexing tool with advanced search filters using C# Blazor and Javascript that reduced the time to locate technical documentation by 3X and earned deployment approval.
- Authored and executed hundreds of NUnit, BUnit unit and integration tests in C#, as well as Jasmine testing in Javascript.
- Implemented database functionality and user profiles into live flight tracking software using PostgreSQL, Entity Framework Core, and C#.

Student Representative | January 2024 – January 2025

Computing Undergraduate Student Advisory Board | Salt Lake City, UT

- Represented the School of Computing on the Undergraduate Advisory Board, meeting with faculty candidates and preparing summary reports for promotion and tenure reviews.
- Collaborated with campus organizations to coordinate events and initiatives for 2K+ students within the School of Computing.

PROJECTS

[Wispar](#) | August 2024 – May 2025 | Django, Python, Javascript, Docker, MySQL

- Designed a modern system for managing ebook and audiobook libraries with Django and Python, with textual and auditory progress synchronized through use of machine learning models.
- Optimized the build, containerization, and UI workflows for Wispar using Docker, overseeing deployment mechanics and front-end updates.
- Standardized the release pipeline with Nginx and Docker, reducing test-and-deploy time by 30%.
- Established dedicated Docker development containers adopted by teammates, reducing feature test and review cycles by 50%.

[Gym-Scraping](#) | November 2023 | Python & SQLite

- Built a Python scraper that fetched University of Utah gym occupancy 20+ times per day, logged the data in SQLite, and analyzed the dataset to pinpoint optimal workout times.

SKILLS

Programming Languages: C#, C++, C, Java, JavaScript, Python

Databases & Query: MySQL, SQLite, PostgreSQL, SQL

Frameworks & Libraries: .NET, EF Core, Django, PyTorch

DevOps & Platforms: Docker, Nginx, IIS, GitHub, GitLab

Testing: BUnit, NUnit, Jasmine