

James Gaboriault-Whitcomb

☎ xxx-xxx-xxxx ✉ xxxxxxxxxxxxxx@gmail.com 🌐 github.com/jjdoesit

Education

Youngstown State University

Bachelor of Science in Computer Science | 4.0 GPA

Expected May 2027

Youngstown, OH

Relevant Coursework

Programming and Problem Solving, Data Structures and Objects, Advanced Object-Oriented Programming, Development of Databases

Work Experience

Software Developer Intern

Union Home Mortgage

May 2025 – Aug. 2025

Strongsville, OH

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Machine Learning Research Assistant

Lawrence Berkeley National Lab

May 2024 – July 2024

Berkeley, CA

- Scaled and optimized a high-performance track particle reconstruction graph neural network (GNN) pipeline using data from CERN, doubling inference and training speeds
- Developed a visualization pipeline to stream output data into properly formatted plots, tables, and directories utilizing SciPy, Matplotlib, and Hydra, enhancing data analysis efficiency
- Delivered ongoing research and results to the Department of Energy, and presented findings at Indico Conference and IEEE International Conference on Big Data

Projects

2D Physics Engine | Java, LibGDX

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

Spritesheet Lab | Next.js, React, MongoDB

- Developed a user-centric website for royalty-free sprite sheets, attracting 10 active users
- Implemented session-driven account registration and login processes, and email-based two-factor authentication
- Designed an advanced gallery page with MongoDB for enhanced search and filtering functionality
- Successfully deployed and hosted the website at spritesheetlab.com

Technical Skills

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

Technologies/Frameworks: Next.js, React, Django, Django Rest Framework, Tailwind, Git, MongoDB