

Joseph Whelpley

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Portfolio website: <https://joewhelps.github.io/JW-website/>

EDUCATION

University of Notre Dame | Notre Dame, IN
Bachelor of Science in Computer Science
Minor: Business (Engineering Corporate Practice)

Graduation: May 2026

Dublin City University | Dublin, Ireland
Fall Study Abroad: Completed 9 technical credits in AI and system design

September-December 2024

EXPERIENCE

Software Engineer Intern

MyTickets

May 2025 – September 2025

- **Built and shipped 20+ production features for a high-traffic ticketing platform**, including the entire frontend of the “Tracked Events” section in which users can visualize the historical price of a ticket over time and the AI prediction of the future price using API-driven data and Tailwind UI components.
- **Diagnosed and resolved 15+ critical payment and webhook bugs**, increasing system reliability by 85% and reducing support tickets by 70%. **Worked in an Agile full-stack environment** (React, Node.js, REST APIs, PostgreSQL), collaborating directly with founders to align engineering decisions with business goals.

Eye-Tracking AI Researcher

University of Notre Dame | Notre Dame, IN

January 2025 – Present

- **Developed a Python-based webcam eye-tracking model** using a machine learning pipeline for data collection, preprocessing, and modeling from webcam input and IR distance sensors, under Prof. Adam Czajka.
- **Selected to present research** at SCALE-con 2026 in Washington, D.C.

Notre Dame Philosophy Instructor

University of Notre Dame | Notre Dame, IN

January 2023 – Present

- **Led weekly discussion sections and served as a teaching assistant** for a foundational philosophy course.
- **Selected as one of 200 students** for this competitive, paid instructional role.

SKILLS

Languages: Python, JavaScript, C, Java, HTML/CSS

Frameworks & Tools: React, Node.js, Django, REST APIs, PostgreSQL, Git, Linux, Tailwind

Machine Learning: PyTorch, Scikit-learn

Other: Agile development, Bash

LEADERSHIP AND ACTIVITIES

President

April 2025 - Present

Notre Dame Martial Arts Institute

- **Managed operations, budgets, and events;** led 4 weekly training sessions for 15+ members promoting discipline, focus, and teamwork.

Eagle Scout

Boy Scouts of America | Vienna, VA