Joseph Whelpley

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EDUCATION

University of Notre Dame | Notre Dame, IN   Graduation: May 2026
Bachelor of Science
Major: Computer Science| Minor: Business (Engineering Corporate Practice)

Dublin City University | Dublin, Ireland   September-December 2024
Fall Study Abroad

EXPERIENCE

Software Engineer Intern
MyTickets   May 2025 – Present
- **Built and shipped 20+ production features** including Stripe-powered checkout with fraud detection, real-time event tracking notifications, and advanced search filters—reducing checkout abandonment by 25% and improving UX. Refactored filtering with parallelized API requests, intelligent caching, and React Query, cutting API calls by 60% and load times by 40%.
- **Diagnosed and resolved 15+ critical payment/webhook bugs,** increasing reliability by 85% and lowering support tickets by 70%. Operated in an Agile, full-stack environment (React, Node.js, REST APIs, PostgreSQL), collaborating directly with startup founders to align technical priorities with business goals.

Eye-Tracking AI Researcher
University of Notre Dame| Notre Dame, IN   January 2025 – Present
- Developed a **Python-based ML pipeline** for collecting, cleaning, and modeling eye-tracking on a screen from Webcam data, in collaboration with Prof. Adam Czajka
- **Authored reusable data-cleaning** utilities for large eye-tracking datasets, such as image bitmap extraction adopted by other researchers in the lab.

SKILLS

Languages: Python, JavaScript, C, HTML, CSS, Java, React
Frameworks & Tools: Django, Node.js, REST APIs, Linux, Git
Other: AI libraries (PyTorch, Scikit-learn), Excel, Shell, SolidWorks

Projects:
- <u>Workout Analysis App</u>: Converted **10,000+ workout log entries** into structured JSON, stored in HarperDB, and built a Streamlit web app to visualize fitness trends via API integration.
- <u>Portfolio Website with GitHub projects</u>: https://joewhelps.github.io/JW-website/
  Designed a responsive site with **clean UI/UX** to showcase my portfolio using HTML, CSS, and JavaScript.

LEADERSHIP AND ACTIVITIES

President & Instructor   April 2025-Present
Notre Dame Martial Arts Institute
- **Managed operations, budgets, and events;** lead 4 weekly training sessions for 15+ members promoting discipline, focus, and teamwork.

Eagle Scout
Boy Scouts of America | Vienna, VA
- Attained the rank of Eagle Scout by demonstrating years of dedication, leadership, and perseverance.