MICHAEL HINES

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EDUCATION

University of Notre Dame - College of Engineering | Notre Dame, IN   August 2021 – May 2025
Bachelor of Science   *GPA: 3.9*
Major: Computer Science | Minor: Engineering Corporate Practice

University College Dublin | Dublin, Ireland   May – July 2023
Engineering Study Abroad Experience

St. Stephen's and St. Agnes School | Alexandria, VA   September 2017 – June 2021
Salutatorian | Head's List (2017-2021) | Cum Laude Society

RELATED COURSEWORK & PROJECTS

Programming Paradigms | University of Notre Dame   March – May 2024
(Wordle Web Application: Python, Django, JavaScript, HTML, CSS, SQLite, REST API, Bootstrap, GitHub)
- Collaborated with a team of four members on GitHub to develop a Wordle-inspired web application, implementing user authentication, gameplay mechanics, player dashboard, and in-game purchases using Python, Django, JavaScript, HTML, and CSS, with SQLite for persistent data storage and REST API for backend communication.

Digital Design for Smart Interconnected Systems | University College Dublin   May – July 2023
(Embedded Temperature Sensing System: C, MPLAB, Logic2)
- Designed and implemented an advanced embedded system for temperature sensing, integrating Microchip Technology for LED control and LCD display features and Logic2 for circuit testing and debugging.

Engineering Computing | University of Notre Dame   March – April 2022
(Spotify Audio Analytics Tool: MATLAB, Excel)
- Developed an interactive tool to analyze audio features of approximately 10,000 songs from Spotify Web API, utilizing MATLAB's App Designer for user-friendly interface and Excel for effective data management.

Other Coursework: Computer Architecture, Data Structures, Integrated Engineering and Business Fundamentals, Introduction to AI, Operating Systems Principles, Probability and Statistics, Systems Programming, Theory of Computing.

LEADERSHIP & ACTIVITIES

Programming Challenges | Notre Dame, IN   August 2024 – Present
Teaching Assistant
- Hosted weekly office hours to mentor students in complex problem-solving techniques and code debugging, while grading assignments with an emphasis on algorithmic efficiency, appropriate data structures, and best software engineering practices.

Yelo | Notre Dame, IN   August 2023 – Present
Brand Ambassador
- Pioneered a campus-wide marketing campaign for Yelo, a student-founded social ride network, achieving over 2,500 downloads (15% of ND students) and successfully onboarding 120+ student drivers within the first month.

Jam ND | Notre Dame, IN   August 2023 – Present
Drummer - "Theft" and "Manor Melodies"
- Co-founded two dynamic student cover bands within Jam ND, showcasing eight years of musical training and contributing to the vibrant music culture on campus.

Morrissey Hall Government | Notre Dame, IN   August 2022 – May 2024
St. André Committee | Interhall Relations Commissioner
- Elevated the first-year student orientation experience by actively coordinating volunteer efforts during Welcome Weekend and organizing impactful collaborative events with other halls.

TECHNICAL SKILLS & INTERESTS

Technical: Python, C/C++, JavaScript, Java, Django, HTML, Linux, GitHub, RISC-V, Assembly, MATLAB, and Excel.
Interests: Strength & Weight Training/Powerlifting, Jazz Drumming, Skiing, Skateboarding, and Interhall Soccer.