Connor McIlhinney

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EDUCATION

Georgia Institute of Technology, College of Computing   **Atlanta, Georgia**
Bachelor of Science in Computer Science   ***Expected Graduation:*** *May 2027*
   Concentration: Information Internetworks & Intelligence   ***GPA:*** 3.61
   Scholarships: Zell Miller Scholarship Recipient   ***Credits:*** 104
   Study Abroad: Universitat Politècnica de Catalunya, Summer 2024 (12 Credits)
   Relevant Coursework: Robotics: AI Techniques, Data Structures & Algorithms, Intro to Database Systems, Linear Algebra

PROJECTS

HIGHLIGHT GENERATOR   **Atlanta, Georgia**
                          Dec 2024 - Present
- Utilized YOLOv8 for object detection and tracking to automate soccer highlight creation
- Enabled player-specific focus by integrating freeze-frames and red-circle annotations in .mov and .mp4 files

MARS GLIDER   **Barcelona, Spain**
                          May 2024 - July 2024
- Created and optimized path generation to avoid asteroids by utilizing particle filters, A* algorithm, and PID smoothing algorithm
- Tracked simulated asteroids with noisy sensors and navigated an aircraft with noisy movements

DATABASE SYSTEM   **Barcelona, Spain**
                          May 2024 - July 2024
- Designed and implemented an Entity-Relationship Diagram of an Airline Management System
- Created SQL tables with strict integrity constraints, ensuring data accuracy and seamless inter-table relationships
- Enhanced data access by developing target views and stored procedures for efficient retrieval and manipulation

EXPERIENCE

PDI Technologies   **Alpharetta, Georgia**
Software Engineer Intern   *June 2025 - Present*
- Designed and provisioned AWS infrastructure securely deploy and scale n8n, an open-source automation platform.
- Containerized n8n using Docker and orchestrated deployments with Terraform for a reliable, repeatable IaC workflow
- Rolled out n8n access to 2,400 employees, empowering organization-wide automation through a secure, cloud-native solution

GTSF INVESTMENTS COMMITTEE – QUANT SECTOR   **Atlanta, Georgia**
Quant Analyst   *May 2024 - Present*
- Conducted quantitative analysis and developed data-driven models to identify investment opportunities
- Presented an insider trading strategy, trained on SEC Form 4 data, leading to its adoption within GTSF's $2.6 million portfolio

CANOPY   **Peachtree City, Georgia**
Software Engineer Intern   *June 2022 - August 2022*
- Worked under the guidance of Steven Covelo, Head of Sales, to identify targeted applications for Canopy's outbound clients
- Shadowed Steve Latham, CEO, to gain insights into strategic decision-making, leadership approaches, and the development of client-focused software solutions.

COMPETITIVE ROBOTICS AT GEORGIA TECH (RoboJackets)   **Atlanta, Georgia**
RoboCup, Software team   *May 2024 - Present*
- Navigated Git and Github for version control and utilized ROS and other frameworks to create autonomous soccer-playing robots

LAZY DOG RESTAURANT   **Atlanta, Georgia**
Server   *May 2023 - August 2023*
- Consistently worked 3-4 shifts per week as a server, optimizing team performance and enhancing guest experiences

LEADERSHIP

ATLANTA UNITED (MLS)   **Atlanta, Georgia**
Unified Partner, Captain   *September 2023 - Present*
- Mentored and coached Atlanta United's Special Olympics Team weekly and competed again other MLS teams across the country

TECHNICAL SKILLS

Technologies: AWS, YOLO, n8n, Azure Devops, PostgreSQL, Flask, Python, Java, SQL, C, HTML, CSS, JavaFX, Assembly
Affiliations: RoboJackets, GTSF Investments Committee - Quant Sector, Sigma Alpha Epsilon Fraternity