JAMES CONNORS

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EDUCATION

The Pennsylvania State University — University Park, PA   **Expected Graduation: May 2028**
Bachelor of Science in Computer Science (College of Engineering)
Relevant Coursework | Programming and Computation II, Object-Oriented Programming, Logic for Computer Science, Discrete Mathematics, Systems Programming, Digital Design, Linear Algebra, Calculus I–III

TECHNICAL SKILLS

Languages | C#, C, Java, Python
Tools & Technologies | Unity, Git, Visual Studio
Concepts | Object-Oriented Programming, Data Structures, Algorithms, Multithreaded Programming, Networking Fundamentals

PROJECTS

VR Puzzle Level Design & Implementation | Unity, C#

- Built a fully custom VR puzzle level as a runtime mod integrated into an existing shipped game
- Implemented multiple interacting mechanics, state transitions, and failure handling under IL2CPP constraints without editor or source access
- Iterated on level flow and feedback to support clarity, pacing, and intuitive player interaction

TCP Chat Client | C, Linux

- Implemented a multithreaded TCP chat client using POSIX sockets and a custom binary message protocol
- Designed concurrent input and network handling to maintain real-time responsiveness
- Handled error states, server disconnects, and clean shutdown across threads

Automated Data Processing Tool | Python

- Built a Python automation tool used by hospital staff to consolidate survey and attendance data into a single master spreadsheet
- Implemented robust parsing and defensive logic to handle incomplete, inconsistent, and changing data formats
- Reduced a 30–40 hour manual workflow to a process that runs in minutes

WORK EXPERIENCE

Head Lifeguard - Holiday Inn – Mount Kisco, NY   **May 2021 – Present**
- Supervise pool operations, manage scheduling, training, and safety compliance
- Demonstrate leadership and calm decision-making

Youth Soccer Referee — Chappaqua AYSO – Chappaqua, NY   **[September 2020 – June 2023]**
- Enforce rules, manage competitive environments, resolve conflicts
- Communicate effectively with players, coaches, and parents

LEADERSHIP AND ACTIVITIES

Varsity Cross Country & Indoor Track | Founder, Nitro Ball Club | Executive, SADD Club & Cancer Awareness Club