

# JAMES CONNORS

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## EDUCATION

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### The Pennsylvania State University — University Park, PA

Expected Graduation: May 2028

- Bachelor of Science in Computer Science (College of Engineering)
- Cumulative GPA: 3.1
- 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

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Languages | C#, C, Java, Python

Tools & Technologies | Unity, Git, Visual Studio

Concepts | Object-Oriented Programming, Data Structures, Algorithms, Concurrent Programming, Multithreaded Programming, Networking Fundamentals

## PROJECTS

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### VR Puzzle Level Design & Implementation | Unity, C#

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

### TCP Chat Client | C, Linux

- Implemented a multithreaded TCP chat client using POSIX sockets and a custom binary message protocol in C
- 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 unified master spreadsheet for operational reporting
- Implemented robust parsing and defensive logic to handle incomplete, inconsistent, and evolving data formats
- Reduced manual processing time from 30-40 hours to seconds, eliminating repetitive data entry

## WORK EXPERIENCE

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### 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

- Enforced rules, managed competitive environments, resolved conflicts
- Communicated effectively with players, coaches, and parents

## LEADERSHIP AND ACTIVITIES

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Varsity Cross Country & Indoor Track | Founder, Nitro Ball Club | Executive, SADD Club & Cancer Awareness Club | PSU Game Design and Development Club