

# Austin Gohn

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## EDUCATION

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University of Pittsburgh, Pittsburgh, PA

Expected December 2026

**Bachelor of Science in Computer Science; Minor in Math**

- GPA: 3.92/4.0
- Relevant Courses: Algorithms and Data Structures, Systems Software, Intro to Machine Learning, Software Quality Assurance, and Database Management Systems

## TECHNICAL SKILLS

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Java, PostgreSQL, Python, C, C#, C++, HTML, CSS, Git/Github, VS Code

## RELEVANT EXPERIENCE

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Ansys (Part of Synopsys), Canonsburg, PA

January 2025 - April 2025 | August 2025 - December 2025

**Software Engineer Intern**

- Implemented a mock plugin manager system in C# to simulate plugin discovery, registration, and communication, enabling testing of CAD data integration.
- Migrated XML parsing in three classes from Xerces to PugiXML, simplifying code and improving maintainability.
- Built modular C++ components for converting geometry data between multiple formats, improving interoperability across engineering tools and workflows.
- Developed a CAD controller in C++ to automate geometry data exchange and ensure stable integration across engineering applications.
- Wrote 100+ unit tests across multiple core geometry-integration components, expanding automated validation coverage and improving reliability.

Conair, Cranberry Township, PA

May 2025 - August 2025

**Software Engineer Intern**

- Developed a mock SQL server on an edge device to emulate database responses, enabling a connected machine to transmit queries for cloud processing.
- Built an Azure IoT Edge module using Docker to enable containerized deployment on edge devices.
- Developed a python script to capture SQL queries from TCP packets and reroute them to the Azure Cloud in JSON format for centralized processing.
- Reduced device setup time by automating software installation with a Python script, eliminating manual steps and improving deployment efficiency across edge devices.

University of Pittsburgh, Pittsburgh, PA

August 2023 - December 2024

**Undergraduate Teaching Assistant**

- Led weekly recitations of 20+ students and provided one-on-one coding support to help students grasp core topics in algorithms and data structures.

## SELECTED PROJECTS

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**2nd Place SteelHacks Hackathon: One Call Away**

March 2024

- Developed a fall detection and emergency notification system for at risk people that detects a fall and notifies emergency contacts.
- Employed Python in conjunction with computer vision libraries, including OpenCV and Ultralytics YOLOv8, to implement fall detection. Integrated seamlessly with the Twilio API to automate emergency calls.
- Collaborated with team members to delegate tasks and complete project in 22 hours.