

# Arpit Gill

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## EDUCATION

**University of Cincinnati**, Cincinnati, Ohio  
Bachelor of Science, Computer Science

**Graduating: May 2028**  
GPA: 3.9

- Primary Coursework: Data Structures & Algorithms, Python Programming, Programming Languages, Operating Systems, Intro to Computer Systems, Computer Science I

## SKILLS

**Programming:** Python, C++, JavaScript (React)

**Software:** LabVIEW, MATLAB

**Operating Systems:** Windows (7-11), MacOS (11-15), Linux (Ubuntu)

**Other:** Backend development, Web development

## EXPERIENCE

**Tenet3 | Backend Software Engineering Intern**

**May 2025 – Aug 2025**

- Developed an automated API testing suite to measure response times, error rates, and performance under load
- Integrated the suite into GitLab CI/CD with pipelines, schedules, and artifacts to proactively test merges and releases ensuring performance drops were caught early
- Built an analytics dashboard that parsed JSON artifacts into interactive charts and graphs for quick engineering review
- Maintained detailed documentation for the suite enabling long-term maintainability
- Collaborated with a team using GitLab for issues, merge requests, sprint planning, conducting code reviews
- Resolved backend bugs and refactored code to improve readability and maintainability

**Tenet3 | Solutions Analyst Intern**

**Aug 2024 – Dec 2024**

- Developed a geographically accurate interactive water network model for an Air Force base supporting outage planning, pressure analysis, and resource management
- Utilized Cameo and MBSE knowledge to create diagrams modeling requirements, architecture, and interfaces
- Created MeTRA® models to display important information such as supply chain data, requirements diagrams, etc.
- Worked directly with customers to improve MeTRA® models and maintain accurate up-to-date information
- Wrote a script to convert PDF requirements documents into graph structures for simplified visualization and analysis

**Okeana Food Mart | Manager**

**May 2021 – Aug 2024**

- Led daily operations at the store; trained staff, scheduled shifts, and managed inventory and ordering
- Processed a high volume of transactions with accuracy and ensuring customer satisfaction
- Maintained and updated a large product database, reducing pricing errors and improving profit margins

## PROJECTS

**Online Multiplayer Games Website | React, Django, WebSockets**

**Jun 2025 – Aug 2025**

- Built a full-stack web application where multiple users connect and play a variety of turn-based multiplayer games
- Implemented lobbies, games, and synchronization over a WebSockets connection with real-time updates, server-side validation, and reconnect handling
- Created a responsive frontend with React for a seamless user experience when playing or joining games
- Designed a backend using REST architecture to handle authentication, data storage, and matchmaking
- Built an SQLite relational database schema to handle data for users, matches, and games

**Lego EV3 Robot | Python**

**Jan 2024 – May 2024**

- Utilized the engineering design process to build an autonomous multifunctional robot with real-world applications using Lego Mindstorms
- Programmed various complex functions for four different tasks in Python
- Practiced disciplined habits such as maintaining a design notebook, tracking hours, and updating documentation
- Collaborated with a randomly assigned team of four students on all stages of the project

**AVAILABLE FOR CO-OP: SPRING 2026**