

# Hemani Alaparthi

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## EDUCATION

Allegheny College - Meadville, PA

Intended Bachelor of Science: Computer Science and Economics (Double Major)

Expected Graduation: May 2027

GPA: 4.00/4.00

## Distinguishments & Honors

Zingale Big Ideas Competition (Top Three)

Lambda Sigma (Honors Society)

Distinguished Alden Scholar (*Achieved Dean's List; 3.8+ GPA*)

Emerging Leader Scholar (*Recognized as an outstanding first year campus leader*)

Secondary Student of the year (*Awarded for academic excellence, peer leadership, and volunteerism*)

Apr 2025

Jan 2025

May 2024

April 2024

Fall 2020

## Relevant Coursework

Algorithm Analysis, Web Applications, Web Design, Software Engineering, Computer Organization, Data Structures & Algorithms, Discrete Structures, Introduction to Computational Expressions, Microeconomics, Macroeconomics, Calculus I

## CERTIFICATIONS & SKILLS

**Certifications:** Software Development, Programming with Web Technologies, Certification of Design & Creativity

**Programming Languages:** Python, Java, JavaScript, TypeScript, HTML, CSS, SQL, MongoDB,

**Developer Tools:** Visual Studio Code, IntelliJ IDEA, Eclipse, Github, Git, Docker, Netlify, Vercel

**Data Analysis & Productivity Tools:** Microsoft Office, Adobe Analytics, Google Workspace

## RELEVANT EXPERIENCE

**Data Intern** | Acutec Precision Aerospace - Meadville, PA

August 2024 - Present

- Developed a visual database using **SQL**, **Neo4j**, and **Docker** to analyze RED tag non conformances, improving defect material traceability.
- Identified trends across **10,000+** manufacturing records, uncovering key defect codes, job operations, and work centers linked to high scrap rates.
- Automated data extraction and visualization, reducing manual analysis time by **30%**.

**Research, Website & Program Developer** | The Crawford Central Elementary Schools - Meadville, PA

May 2024 - Present

- Conducted research on educational strategies and curriculum development to create an effective computer literacy program
- Met weekly with K-6 students to lead coding activities tailored to diverse learning styles and abilities.
- Created and deployed a website with over **15 activities** and guides using **HTML & Java**, reaching **100+** across the Crawford County students

**Technical Leader** | Computer and Information Science Department. - Allegheny College

January 2024 - Present

- Assisted **20+** students during class hours with interface problems and concepts
- Hosted 1:1 office hours to aid first year students experiencing interface problems and with understanding course concepts
- Collaborated with professors to develop new codes for future curricular use such as new grading methods

## PERSONAL PROJECTS

**Piece of Sober App & iMessage Extension**

Swift, Xcode, UserDefaults, App Groups

- Developed an iOS app and iMessage extension that warns users when messaging low-rated contacts
- Utilized App Groups and UserDefaults to share contact ratings between the main app and the extension, enabling seamless data synchronization.
- Designed a user-friendly interface with Swift and UIKit, ensuring clear and actionable warnings for high-risk contacts.
- Implemented real-time contact rating checks within the Messages app, enhancing user control and decision-making.

**Pantry Tracking App**

Next.js, React, Material UI, Firebase

- Developed an management application that helps users track pantry items by adding, removing, and updating quantities
- Leveraged Material UI to design a clean and user-friendly interface, enhancing the user experience
- Implemented Firebase as the backend service to manage real-time data updates, ensuring accurate inventory tracking

**Health AI Bot**

Next.js, React, Material UI, Open Router AI, API

- Built an AI-powered healthcare chatbot using Next.js and the OpenRouter API to provide real-time medical assistance
- Developed a secure and responsive web interface, ensuring a seamless user experience and data privacy compliance
- Enhanced user experience by providing efficient access to information, streamlining the process of seeking medical help

## LEADERSHIP & VOLUNTEER EXPERIENCE

**Resident Advisor** | Student Life - Allegheny College

August 2024 - Present

- Supported a diverse group of **20+** upperclassmen students, serving as a resource and addressing their concerns, questions, and needs
- Held monthly events with residents to foster inclusivity and build strong relationships, creating a supportive and welcoming community
- Actively collaborated with fellow Resident Advisors and campus staff to enhance student experience and improve residential life programs

**CBE Fellow** | Center for Business & Economics - Allegheny College

September 2023 - Present

- Host two major events annually, including Gator Day, fostering student-faculty connections.
- Networked with alumni to strengthen connections and promote future collaboration opportunities
- Created and promote engaging content for program communications, resulting in increased event participation