

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

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*)

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, SQL, JavaScript, TypeScript, HTML, CSS

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

- Conduct research on educational strategies and curriculum development to create an effective computer literacy program
- Meet 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

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

PERSONAL PROJECTS

NoDrunkText iMessage App & Extension

Swift, Xcode, UserDefaults, App Groups

- Developed an iMessage App & Extension to prevent drunk texting by warning 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

- Develop a pantry management application that helps users track pantry items by adding, removing, and updating quantities
- Leverage Material UI to design a clean and user-friendly interface, enhancing the user experience
- Implement 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

- Build an AI-powered healthcare chatbot using Next.js and the OpenRouter API to provide real-time medical assistance
- Develop a secure and responsive web interface, ensuring a seamless user experience and data privacy compliance
- Enhance 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

- Supporting a diverse group of **20+** upperclassmen students, serving as a resource and addressing their concerns, questions, and needs
- Hold monthly events with residents to foster inclusivity and build strong relationships, creating a supportive and welcoming community
- Actively collaborating 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

- Organize and host two major events per academic year, including the department's Gator Day activity, fostering community among students and faculty
- Network with alumni to strengthen connections and promote future collaboration opportunities
- Create and promote engaging content for program communications, resulting in increased event participation