

Hemanth Mukesh

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EDUCATION

Texas A&M University

BS in Computer Science with Honors

Aug 2021 - May 2025

College Station, TX

- **GPA:** 3.98/4.0
- **Relevant Coursework:** DSA, Architecture, Programming Languages, Algorithms, Computer Systems, Software Engineering, Networks, Problem Solving

SKILLS

- **Programming Languages:** Python, C++, Java, Javascript, HTML, CSS, R
- **Frameworks/Tools:** React, Express, Node, Git, Agile, Amazon Web Services, Linux, Docker
- **Soft Skills:** Highly Adaptable, Dedicated, Team Player, Effective Communicator

PROJECTS

C++ Network Applications - C++ | Visual Studio

- Developed a suite of network programs in C++, leveraging memory manipulation and multithreading
- Created a web crawler capable of processing over **1 million** URLs in just **2 minutes** with **1000 threads**
- Implemented robust error handling through fallback mechanisms, achieving **100% uptime** with no crashes

ChoreDash Python Game - Python

- Won **1st place overall** in the 2023 Capsher Coding Competition
- Developed a 2-5 minute replayable **Python** game as a team of 3 using the pygame module
- Wrote over **50%** of the code base, including scoring, timer, pause mechanics, and game state

Personal Website - React.js | Express.js | AWS

- Created a React website to showcase my coding projects to the world
- Integrated an **AWS EC2** instance as the backend, hosting C++ applications on the cloud

Mess Waffles Restaurant Website - PostgreSQL | Express.js | React.js | Node.js

- Lead backend developer following **Agile** methodology - including sprints and scrum meetings

RELEVANT EXPERIENCE

CSCE Undergraduate Researcher

Texas A&M University

May 2024 - Present

College Station, TX

- Starting research on coloring algorithms in GraphBLAS under Dr. Tim Davis at Texas A&M

CSCE Peer Teacher

Texas A&M University

Aug 2023 - May 2024

College Station, TX

- Reinforced concepts to **150+ students** total during Intro to Program Design (CSCE 121) lab
- Administered the official TAMU CSCE Discord - an online community of **1,800+ users**

Global Undergraduate Researcher

Texas A&M University and IIT Gandhinagar

May 2023 - Aug 2023

Gujarat, India

- Analyzed **over 20 recent papers** in network telemetry, identifying key trends and advancements
- Prototyped a P4 switch through a Raspberry PI and demonstrated a **<5 percent** difference in P4 switch speed vs the industry standard, indicating potential for usage
- Collaborated cross-functionally with a diverse team and culture

U.S. Citizen