

Hitarth Thanki

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EDUCATION

University of Houston

Houston, Texas, USA

Bachelor of Science in Computer Science

August 2022 – May 2025

- Relevant Coursework: Algorithms, Data Structures, Operating Systems, Database Systems, Software Design, Computer Architecture, Linear Algebra

TECHNICAL SKILLS

Languages: Java(5 years), Python(3 years), C/C++(3 years), Javascript(2 years), R(1 year)

Frameworks and Libraries(All 1 year): React, Node.js, Pygame, Tkinter, Material-UI, FastAPI

Developer Tools: Git(3 years), Linux(2 years), Cloudflare CDN (1 year) , GitHub(3 years), Binwalk, GDB, Radare

PROJECTS

Stellar Scholars

Jan 2024

- Built a web browser video game using **Javascript**, **React**, **Pixi.js**, and **Tailwind CSS** to teach kids about the planets and moons of the Solar System. Integrated **OpenAI API** to create a context-aware chatbot for educational guidance. Deployed on **Cloudflare Pages**.
- **Won 4 awards at TamuHack X (worth 500\$):** Best Software Design (100\$), Best AI Application with Cloudflare (100\$), 4th place overall in Software track (250\$), and 3rd in the L3Harris Challenge (50\$).

Dropawf

Apr 2024

- Developed a pet-themed post office app with **NodeJS**, **React**, and **MySQL** for tracking packages and managing addresses. Hosted frontend on **Cloudflare Pages** and backend on **Render** and **Azure**.
- Utilized **Git** for version control and continuously deployed to Cloudflare via **GitHub**.

CyberAuto and CyberDrone Conferences

Jul-Sept 2024

- Gained real-world penetration testing experience on production drones and cars.
- Used tools like open5gs, Ghidra, binwalk, strace to **discover 3 Zero-Days Exploits** in a production drone system.

Personal Portfolio

Aug. 2024 – Present

- Developed **Version 1** as a single-page portfolio using **React**, showcasing a simple card layout.
- Developing Version 2 using Astro and Mard

LEADERSHIP EXPERIENCE

Director of CodeRED

Jan 2024 – Present

University of Houston

Houston, Texas

- Organized the largest hackathon in the Houston metropolitan area, with **450 participants**, **30% female**, and **40% from underrepresented groups**, overseeing all aspects of planning and implementation.
- **Managed a team of 20 leaders**, coordinating efforts in Design, Code, Marketing, and Sponsorship acquisition for CodeRED.
- Handled a budget of approximately \$40,000, optimizing resource allocation to maximize event impact.

Software Team Lead: USIP

Jul 2023 – Present

University of Houston

Houston, Texas

- **Led a 6-member software development team** for the Undergraduate Student Instrumentation Project (USIP), managing coding tasks and team collaboration.

Historian: CougarCS

Nov 2022 – Dec 2023

University of Houston

Houston, Texas

- **Captured and documented over 90 CougarCS events**, creating a visual and written record of key moments.