

MIHIR SAHU

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Education

College of Natural Sciences and Mathematics, University of Houston

August 2020 – May 2024

Bachelor of Science in Computer Science

Houston, Texas

C.T. Bauer College of Business, University of Houston

August 2020 – May 2024

Bachelor of Business Administration in Finance

Houston, Texas

Technical Skills

Languages: Python, C/C++, HTML/CSS, JavaScript, TypeScript, SQL, R, Bash, Powershell

Developer Tools: Linux, VS Code, Vim, Emacs, Git, Docker, AWS, Jira, Agile Methodologies

Technologies/Frameworks: Flask, Selenium, React.js, Next.js, Node.js, Postman, TailwindCSS, Supabase

Offensive/Defensive Security Tools: Metasploit, Burp Suite, Nmap, Wireshark, Ghidra, GDB+GEF, Radare2

Experience

Seatgull

February 2022 – October 2022

Software Engineer

Houston, Texas

- Worked on an application with other students to provide an easy and efficient way to enroll for classes
- Used Rust's Actix framework to create a fast, asynchronous backend while providing a responsive front-end with React
- Designed and created a course scheduler connected to 60 universities with over 850,000 students through React.js
- Spearheaded Reddit marketing by creating posts on 20+ subreddits and reached out to 50+ influencers on Instagram

Neuhaus Education Center

June 2019 – August 2019

Content Intern

Houston, Texas

- Located, updated, and converted 61 Lessonnets [flash programs] and 88 videos to non-Flash formats
- Updated Welcome pages across 17 online classes on the CMS website
- Edited and produced 16 new videos using Camtasia
- Added 32 digital activity pages in Neuhaus Academy and verified with additions the 68 pre-existing digital activity pages

Leadership

CougarCS

August 2021 – Present

President

December 2022 - Present

Director of Information Security

December 2021 - December 2021

- Supervised a team of 20 to compete against other universities in CTF competitions by using common pentesting tools
- Facilitated the creation of VM, Linux, and Password Cracking workshops to teach students about popular technologies
- Created 40+ interactive step-by-step writeups for CTF rooms on TryHackMe using Markdown

CodeRED Odyssey Hackathon

June 2022 – November 2022

Marketing Officer

- Organized Houston's largest hackathon's 8th iteration – CodeRED Odyssey (MLH event) over a period of 5 months
- Marketed the event on a regular basis on and off campus, as well as on social media such as LinkedIn and Instagram
- Helped set up, organize, manage, and clean up over the entire 24-hour event

Projects

Recharge | TypeScript, React Native, JSX, Figma, Actix, MariaDB, Docker, AWS

June 2022 – August 2022

- Created a full stack mobile app for IOS and Android to allow the UH community to find activities around campus
- Designed using Figma for UI/UX development to create designs for 10+ mobile app pages
- Utilized React Native with custom styling components for front-end development and Actix for back-end development
- Programmed a website using Vite and TailwindCSS, and hosted it on an Oracle Cloud VM with Nginx reverse proxy

Robotic Arm | 3D Printing, TypeScript, Node.js, Express JS, Arduino

February 2022 – May 2022

- Designed and 3D printed a mechanical robot arm to simulate joints and muscle movement in an agile environment
- Hosted a website using Node.js and connected it with Arduino IDE
- Used OpenCV to identify colored objects using gaussian blurring and move the robotic arm

Home Server | Docker, Python, Plex, Wireguard, Tailscale, Pi-Hole, etc.

August 2021 – Present

- Installed Raspbian on a Raspberry Pi, set up SSH, and self-hosted with Plex Media Server, the Wireguard VPN client, the Nextcloud suite, and Pi-Hole using Docker containers
- Scripted a scheduler in Python using the pandas and datetime modules to integrate with a Google Sheets calendar and send push notifications based on server temperature and upcoming dates/times
- Utilized Portainer and Docker to organize and host 20+ containers organized into 3 stacks with 10 volumes in total