

# 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

**Certifications:** Certified SAE 6 Practitioner, Microsoft Certified: Azure Fundamentals

## Experience

**Chevron**

**May 2023 – Present**

*Cloud and Infrastructure Intern*

*Houston, Texas*

- Built a full-stack webapp with Next.js and TailwindCSS/MantineUI to allow users to report major incidents with widespread impacts
- Assisted in conducting exploratory work to build an AI model with ServiceNow Incident and Knowledge Base articles
- Worked with a team of interns to create a Cloud and Infrastructure learning pathway for employees on an internal learning platform

**Seatgull**

**February 2022 – October 2022**

*Software Engineer*

*Houston, Texas*

- 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

## 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