

Mihir Sahu

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EDUCATION

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

May 2024

Bachelor of Business Administration in Finance

College of Natural Sciences and Mathematics, University of Houston

Bachelor of Science in Computer Science

EXPERIENCE

Buzly | Houston, TX | *Developer*

August 2022 - Present

Seatgull | Houston, TX | *Developer* | *Marketing*

February 2022 - Present

- Worked on an application with other students to provide an easy and efficient way to enroll for classes
- Using Rust's Actix framework to create a fast, asynchronous backend while providing a responsive front-end with React
- Designed & 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+ content creators on Instagram

Neuhaus Education Center | Houston, Texas | *Content Intern*

June 2019 –August 2019

- 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

ACTIVITIES AND ORGANIZATIONS

CougarCS | Houston, TX | *Director of Information Security* | *Web Dev Committee* | *Marketing Officer*

Director of Information Security

- Supervised a team of 20 to compete against other universities in capture the flag competitions by using common penetration testing tools such as Burp Suite, Metasploit, and Nmap
- Facilitating the creation of virtual machine, GNU/Linux, and bad USB workshops to teach students about popular technologies
- Created 40+ interactive step-by-step writeups for CTF rooms on TryHackMe using Markdown

Web Dev Committee

- Creating an admin portal for CougarCS officers and members using React.js, TailwindCSS, & Node.js
- Created an API to manage requests from an admin portal using Express.js, Node.js, & Postman
- Gained database design experience and interacted with a MySQL database using Prisma ORM

PROJECTS

Recharge | *Typescript, React Native, JSX, Figma, Actix, MariaDB, Docker*

- Created a full stack mobile app for IOS and Android to allow the UH community to find events and activities across campus
- Utilized Figma for UI/UX development to create designs for 10+ mobile app pages
- Designed using React Native with custom styling components for front-end development and Actix for back-end development
- Scripted a Docker-Compose file to launch the front-end, backend, and database with one command for easier setup
- Programmed a website using Vite and TailwindCSS, and hosted it on an Oracle Cloud Ubuntu VM with Nginx reverse proxy

Self-Hosting | *Docker, Python, Plex, Wireguard, Tailscale, Pi-Hole, etc.*

- 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-Compose to organize and host 20+ containers organized into 3 stacks with 10 volumes in total

Senpy | *Python, Discord.py, SQLite, Linode, Repl.it*

- Programmed a Discord bot that helps with Sentimental Analysis & provides sentiment reports every week
- Won 1st place at HackCWRU for creating a sentimental analysis python bot against 105 other participants
- SenPy strives to address mental illness issues and general stress by providing easy ways to access important resources

SKILLS

- **Programming Languages:** Python, C/C++, Javascript, HTML/CSS, SQL, R, Bash, Powershell
- **Frameworks:** Flask, Selenium, React.js, Node.js, Next.js, Postman, TailwindCSS
- **Tools:** Git, Docker, Vim, Emacs, Linux, AWS, VSCode, Agile Methodologies, Jira
- **Ethical Hacking:** Reverse Engineering, Penetration Testing, Network Exploitation