

MIHIR SAHU

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Education

College of Natural Sciences and Mathematics, University of Houston August 2020 – December 2024
Bachelor of Science in Computer Science Houston, Texas

C.T. Bauer College of Business, University of Houston August 2020 – December 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
Certifications: Certified SAE 6 Practitioner, Microsoft Certified: Azure Fundamentals

Experience

BidOut September 2023 – December 2023
Project Management Assistant Houston, Texas

- Managed the product launch of Breaker19, an oil and gas transportation service, including web and mobile applications
- Worked with developers for quality assurance, resulting in a reduction of bugs and a final product suitable for launch
- Designed the infrastructure and user interface of a mobile app for future launch, taking technological challenges and logistical issues into account

Chevron May 2023 – August 2023
Cloud and Infrastructure Intern Houston, Texas

- Built a full-stack web app 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

The Ion August 2023 – Present
Ion Student Ambassador

CougarCS August 2021 – December 2023
President December 2022 - December 2023
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

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

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