

Joshua Ibrom

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Education

MS Computer Science. Texas A&M-San Antonio. **08/2024 - Current**
Coursework: Algorithms, Cloud Computing, Database Systems, Operating Systems, Computer Networks.

BS Computer Science. Texas A&M-San Antonio. **08/2017 - 05/2024**
Coursework: Algorithms & Data Structures, ML / AI, Linear Algebra, Programming Languages.

Work Experience

Research Technician. San Antonio, Tx **12/2024 - Current**
Texas A&M-San Antonio

- Engineered a data pipeline to scrape ~**650 faculty CVs**, using an **LLM** to convert publication information into APA-formatted citations and persisting data in a **SQLite database** to support faculty research tracking.
- Collaborated with University staff to incorporate the tracking and display of publications and presentations, **enhancing institutional showcasing of academic achievements.**

Web Development Intern. San Antonio, Tx **05/2024 - 08/2024**
Texas A&M-San Antonio ITS Web Team

- Ensured a **seamless transition** for **3000+ pages**, maintaining site integrity and user experience throughout the migration process.
- Enhanced a **LAMP stack application** for syllabi/CV storage, adding timestamp tracking, improving error messages, and **ensuring proper HTTP response codes.**
- Deployed new portal application with **over 8000 users**, **centralizing access** to essential university resources and **improving user engagement.**

Web Team Student Worker. San Antonio, Tx **08/2023 - 05/2024**
Texas A&M-San Antonio ITS Web Team

- Managed **3000+ pages** in **Cascade CMS**, utilizing **SiteImprove** to eliminate **over 1000 broken links** and ensure content quality.
- Implemented **parameter and form validation** on our LAMP stack application, **mitigating potential SQL injection vulnerabilities** and **enhancing data integrity.**
- Developed a new website for the University Esports program using **HTML, CSS, and Javascript**, increasing program visibility.

Projects

Fossil Finances. Winner, RowdyHacks 2024 SWIVEL Challenge **02/2024**

- Developed an **accessibility-focused fintech web application** to assist elderly users with online banking.
- Unified the **React-based frontend** with the **Flask-powered backend** that interfaced with our **Firebase Firestore.**

HackSA Website. **10/2023**

- Deployed website for TAMU-SA's HackSA hackathon for **participant tracking and event management.**
- Created new **API endpoints for data analysis** and mentored in other members' understanding of working with the codebase which utilized **Next.js, TailwindCSS, and Firebase.**

Skills

Programming: Javascript/Typescript, PHP, Python, Rust, HTML, CSS.

Web and Other Technologies: React, Astro, Svelte, GNU/Linux, Vim, Git, SQL, Cascade CMS, SiteImprove.

Extracurricular Activities

Organizer/Web Team. HackSA 2023 **10/2023**

Organized and ran my university's first overnight hackathon and worked on the website for the hackathon. **Led 2 workshops** covering the basics of **Figma** and an **Introduction to HTML & CSS.**

Logistics Officer. TAMU-SA ACM **09/2023 - 12/2023**

Served as an officer of my university's Association for Computing Machinery organization. **Led 1 Introduction to HTML, CSS, & JS workshop** with an attendance of **over 25 members** and **1 Introduction to Git workshop.**