

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

Web Application Developer III. San Antonio, Tx **07/2025 - Current**
Texas A&M-San Antonio ITS Web Team

- Mentored a team of **4 student workers** on **integrating new technologies** and improving implementation methods by **conducting code reviews** and developing **standalone demo applications** to teach best practices.
- Engineered **tooling to streamline log analysis** by creating a unified viewing format and a translation function, **significantly reducing debugging** time for the team.
- Ensured full **compliance with WCAG 2.0 Level A guidelines** across all web properties by **auditing and remediating 3000+ pages**, which **improved accessibility scores by 8%**.

Research Technician. San Antonio, Tx **12/2024 - 07/2025**
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 **mitigating SQL injection vulnerabilities**.
- Deployed new portal application with **over 8000 users**, **centralizing access** to essential university resources and **improving user engagement**.

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, Zig, HTML, CSS.

Databases & Data: SQL, MariaDB, SQLite, PostgreSQL, Firebase Firestore.

Frameworks/Libraries: React, Astro, Svelte, Bootstrap, Flask.

Tools & Platforms: GNU/Linux, Git, Vim, 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**.