

JOSHUA SILVA

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EDUCATION

The University of Texas at San Antonio

Expected Graduation: May 2026

Bachelor of Science, JUNIOR

GPA: 3.78

- Major: Computer Science

PROGRAMMING LANGUAGES | Problem solving leveraging data structures and algorithms in several languages

- Advanced Python
- Intermediate Java, C, and JavaScript/TypeScript, and SQL
- Basic Rust and Go

DATA SCIENCE/MACHINE LEARNING

- Machine learning and data science tools such as Sci-kit Learn, Pandas, NumPy, TensorFlow, and PyTorch
- Read and comprehend literature related to deep learning, computer vision, and natural language processing

WEB DEVELOPMENT | Developing full-stack web apps

- Intermediate HTML, CSS, and JavaScript/Typescript
- Modern web technologies such as React.js, Next.js, TailwindCSS, Prisma, tRPC, etc.

EXPERIENCE & ACTIVITIES

Research Assistant

June 2023 - Present

UTSA Virtual and Immersive Realities Lab, Austin, Texas

- Trained Convolutional Neural Networks (CNNs) based on the ResNet Architecture to detect traumatic brain injury in brain scan images
- Wrote methodology for a published paper abstract
- Utilized tools such as Python, Pytorch, Pandas, Scikit-learn, OpenCV, and more
- Achieved a 97% accuracy on the task of semantic image segmentation
- Developing a Unity framework to perform full body pose estimation on RGB images for virtual reality physical therapy applications

President and Technical Officer

May 2023 - Present

ACM UTSA, Austin, Texas

- Demonstrated proficient leadership while providing vision and motivation for the ACM UTSA, the largest student organization on campus
- Developing membership portal features using React.js, Next.js, TailwindCSS, Prisma, tRPC
- Creating websites for multiple ACM hackathons including RowdyHacks and Rowdy Datathon

Technical Lead

August 2021 - January 2024

ICODE, LLC, Austin, Texas

- Taught over 500+ kids coding and soft skills through weekly project-based sessions with a professional curriculum

PROJECTS

ACM Portal

December 2022 - Present

- Developed features for ACM UTSA's in-house membership portal
- Made several improvements to the website through open source contributions

Hackkit | Core Contributor

December 2023 - Present

- Developed features for hackkit, ACM's open source hackathon management software
- Full-stack web application with HTML, CSS, and Typescript tools

RowdyCTF | Frontend Developer

August 2023 - Present

- Lead the frontend development of RowdyCTF, a website to host custom-made cybersecurity CTF challenges
- Utilized web technologies such as Next.js, Reactjs, TailwindCSS, and more