

Joshua Everett Silva

Full Stack Software Engineer

Driven and intuitive Full Stack Software Engineer with strong foundation in developing robust, scalable applications. Ready to leverage knowledge in Large Language Models (LLMs) and AI technologies to design and implement innovative solutions. Effective communicator with passion for data processing and data collection, eager to learn and adapt in fast-paced environments. Brings focus on intuitive feature development and thrives on creating solutions that enhance user experiences while staying at forefront of technological advancements.

San Antonio, TX 78249

512.659.8471

joshuasilva414@gmail.com

linkedin.com/in/joshuasilva414

SKILLS & COMPETENCIES

Software Development – Artificial Intelligence – Open-Source Coding

AI DEVELOPER TOOLS	RELATIONAL DATABASE CONCEPTS	ADVANCED PY, JAVA, JAVASCRIPT,
ENTERPRISE SOFTWARE ENGINEERING	SYSTEMS PROGRAMMING	TYPESCRIPT, C, C#, GO, POSTGRESQL
WEB TECHNOLOGIES	USER INTERFACES ON MOBILE PLATFORMS	SCI-KIT LEARN, PANDAS, NUMPY
GIT-BASED COLLABORATION	TECHNICAL DOCUMENTATION	TENSORFLOW, PYTORCH, CSS
PROJECT MANAGEMENT	DEVELOPER ADVOCACY EXPERIENCE	REACT.JS, NEXT.JS, TAILWINDCSS
CI/CD PLATFORMS	CLOUD PLATFORMS/ CONTAINERIZATION	API DESIGN, FASTAPI

PROFESSIONAL EXPERIENCE AND ACHIEVEMENTS

Paycom

Software Development Intern

05/2025 – 08/2025

Irving, TX

Devised proprietary system for extracting tabular data from PDFs with high accuracy and flexibility. Developed web application using advanced web development. Participated in daily standup meetings. Aided in technical documentation.

**CORE COMPETENCIES:** DEBUGGING, AI DEVELOPER TOOLS, AI APPLICATION OPTIMIZATION, LARGE SCALE DISTRIBUTED SYSTEMS, AI STRATEGIES, LEADERSHIP, SECURITY & COMPLIANCE, COLLABORATION & TEAMWORK

- *Reduced client onboarding time and improved accuracy via data extraction automation from complex PDF forms; analyzed samples to identify parsing challenges; designed system for developing tabular data extraction templates*

Association for Computing Machinery (ACM) University of Texas San Antonio (UTSA)

11/2023 – Present

San Antonio, TX

Projects Officer (05/2025 – Present)

Provide administrative and logistical support for open-source software projects. Coordinate meetings, manage documentation, monitor progress, and communicate with stakeholders. Ensure project success and adherence to deadlines.

**CORE COMPETENCIES:** AI CAPABILITIES, AI SCALABILITY, AI WORKLOAD OPTIMIZATION, TYPESCRIPT, TESTING STRATEGIES, GIT-BASED COLLABORATION, HORIZONTAL SCALING, DEVELOPER ADVOCACY EXPERIENCE

- *Improved project organization and team workflows, scaled team to 20 members; organized smaller, project-specific teams to progress simultaneous projects; leveraged workflows, increase efficiency in review of PRs; improved developer experience via curated documentation and learning resources; increased ease of learning for new members*

Vice President (05/2024 – 05/2025)

Demonstrated proficient leadership while providing vision and motivation for ACM UTSA, among largest student organizations on campus. Established sustainable leadership pipeline.

**CORE COMPETENCIES:** WRITTEN AND VERBAL COMMUNICATION, CI/CD PLATFORMS, PROBLEM SOLVING, NETWORKING, LOGISTICS AND COORDINATION

- *Rebuilt mentorship program for leadership development, resulting in 20+ mentees successfully onboarded to leadership roles during first semester; conducted assessment of previous mentorship gaps and designed structured curriculum; implemented mentoring framework with milestones, training modules, and project assignments*

## President (11/2023 – 05/2024)

Acted as representative, leader, and liaison for student body. Led initiative to reorganize leadership to handle rapid growth through new systems and constitutional revisions. Managed communications and fostered engagement.

**CORE COMPETENCIES:** OWNERSHIP & ADAPTABILITY, AI EXPERIENCE, PUBLIC SPEAKING, BIAS FOR ACTION

- *Created initiatives system framework to collaborate across foci, raised productivity, and facilitated massive organizational growth; analyzed existing structure for interdepartmental barriers; enacted clear collaboration protocols and shared accountability structures; drove collaboration and capacity for simultaneous projects*

## Undergraduate Research Assistant in Virtual and Immersive Realities Lab (06/2023 – 05/2024)

Researched relevant machine learning approaches for semantic image segmentation. Wrote paper on subject matter. Assisted with data collection, literature reviews, data entry, and report preparation.

**CORE COMPETENCIES:** AI INFERENCE, DATA ANALYSIS, MULTIMEDIA, TYPESCRIPT, ML WORKLOADS, AI TRAINING, CUTTING-EDGE AI USAGE

- *Achieved 97% pixel-wise prediction accuracy and authored methodology on ResNet architecture; trained CNNs with hyperparameter tuning to evaluate performance of established models on task; trained machine learning model to detect traumatic brain injury from brain scan images with high accuracy*

## Tech Officer (05/2023 – 11/2023)

Created new framework to break down silos between different officer focus areas and enabled cross-functional collaboration for greater organizational impact.

## Technical Project Lead at Clubkit (01/2024 – Present)

Oversaw development and rollout of custom features for usability and scalability. Provided technical leadership and guidance to team while ensuring alignment with project goals, deadlines, and quality standards.

**CORE COMPETENCIES:** DATA ANALYTICS, AI DEVELOPMENT, CLEAR COMMUNICATION, MENTORSHIP, PROBLEM SOLVING

- *Designed and launched Clubkit portal to manage events and membership for 1K+ students; identified pain points; oversaw dev and rollout of features for better usability and scalability; improved efficiency and interorganizational engagement*

## Tech Lead (05/2024 – Present)

Define project scope, create technical designs, and manage team tasks. Monitor progress by communicating with team members, identifying and resolving technical issues. Foster collaborative team environment.

**CORE COMPETENCIES:** EVENT-DRIVEN ARCHITECTURE, TYPESCRIPT, AI DEPLOYMENT, TESTING STRATEGIES

- *Built and launched 'Hackkit' hackathon resource platform and enhanced participant experience for 500+ hackers; conducted user research to identify key pain points and requirements; developed core features including registration and checking, admin side event, and user management; increased satisfaction and reduced organizer workload*

## iCode

### Technical Lead / Coding Instructor

08/2021 – 08/2024

Austin, TX

Mentored and supported new instructors through onboarding. Taught students through professional, project-based curriculum. Maintained high student engagement and smooth instructor onboarding transitions.

**CORE COMPETENCIES:** MONITOR METRICS, SYSTEM OPTIMIZATION, CLEAR COMMUNICATION, COLLABORATION & TEAMWORK

- *Ensured consistent instructional quality and allowed for program growth; developed onboarding checklists and taught core lessons to new hires; offered hands-on feedback and facilitated collaborative classroom projects*

## EDUCATION

**BS, Bachelor of Science – Computer Science (Expected Graduation December 2025)**

University of Texas San Antonio, San Antonio, TX