Jose Ricardo Arriaza

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EDUCATION

The University of Texas at Austin, Austin, TX   August 2025
Bachelor of Science in Computer Science
Minor in Applied Economics
Minor in Business

Relevant Coursework: Object Oriented Programming, iOS Mobile Development, Computer Networks, Info Retrieval

TECHNICAL SKILLS

- Proficient in Java, JavaScript, Python; Familiar with C, C++, JavaScript, Swift.

EXPERIENCE

University of Texas, Austin, TX   June 2024 – August 2024
Undergraduate Research Assistant

- Collaborated with Dr. Nielsen to evaluate rewrite efficacy against real software targets and quantify vulnerability reduction.
- Built a binary re-writing tool to automatically locate and patch unsafe functions lacking bounds checks, reducing buffer-overflow exposure in legacy binaries.
- Reduced manual auditing effort by enabling automated defensive hardening across codebases with incomplete source availability.

Sanger Learning Center, Austin, TX   August 2023 – December 2024
Tutor

- Provided individualized academic support in Calculus, Introduction to Programming, and Data Structures & Algorithms, helping students strengthen conceptual understanding and improve course performance.
- Collaborated with academic staff to align tutoring approaches with course objectives and student needs.
- Guided students through problem-solving strategies, code review, and algorithmic thinking, contributing to measurable gains in comprehension and confidence.

PROJECTS

- **JoinME App** – Developed an iOS application built in Swift that enables users to send activity invitations to friends for tasks such as shopping, social outings, and everyday errands.
- **ParkPortal** – Created a web application using SQLite, Next.js, hosted with GCP that allows users to find theme parks based on different characters, locations, and number of rides available.
- **Jamming** – Created a Spotify playlist from the hashtags used by a given twitter account. Uses Flask, Mako templating, and Requests, along with the Spotify and Twitter APIs

Leadership & Community Involvement

Latin Economics Business Association, Austin, TX   January 2023 – May 2025
Project Manager, Vice President

- Budget for each academic semester to maximize educational and experiential benefits to 700+ members
- Administered and provided technical support for the mobile application utilized for member registration and event promotion
- Managed operations for large student gatherings, overseeing staffing, venue logistics, compliance, and promotional strategy.
- Engaged with organizations and prospective sponsors to establish key collaborative partnerships (e.g., Red Bull, PWC, Dell).