

# SANTIAGO ESPINOZA BLUNDA

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## EDUCATION

University of Texas at Austin

Major in Computer Science

Expected Minor in Statistics & Data Science

Present — Expected May 2028

## WORK EXPERIENCE

### Driven Telematics

April 2025 — Present

Summer and Part-Time Intern

- Developed telemetry **data retrieval/upload system** for driving data using **Agile** methodologies with **AWS** API Gateway, Lambda, etc.
- Implemented **API** processing multiple **Firehose** streams in parallel with **<1s response time** for real-time telemetry data retrieval
- Architected **PostgreSQL** database schema on **Aurora** with **Docker** for streamlined deployment and environment consistency
- Engineered comprehensive **CloudWatch** and **S3** logging/auditing achieving **100% request traceability** across all data flows

### Karatube AI

March 2024 — August 2024

Cofounder and Inaugural Intern <https://karatube-karaoke-with-youtube.en.softonic.com/chrome/extension>

- Architected and deployed an **AI-powered** system, extracting instrumental and synchronized lyrics from YouTube for karaoke playback
- Integrated with **AWS Lambda** for serverless audio processing, **ElastiCache** for fast storage, and integrated with OpenAI Whisper API
- Developed **MVP** with **Svelte-based** front-end, incorporating **real-time audio synchronization** and live lyric display for user interaction
- Established **CI/CD** pipeline and **automated testing**, reducing deployment time and ensuring reliable service availability at all times

## PROJECTS

### EcoNest

August 2023 — June 2024

Team Manager Technology Student Association Webmaster Submission 23-24 <https://eco-nest.vercel.app/>

- Built **full-stack** environmental awareness platform placing **6th globally** and **1st in Texas** among **2,000+** competing teams
- Engineered **real-time Firebase** back-end messaging and **3D Three.js modeling** enabling collaborative sustainable living visualization
- Coordinated 6-person development using **Git workflows** with **pull request reviews**, integrating **Next.js** front-end with TailwindCSS

### Custom Search Engine

March 2024 — May 2024

Web Search Platform with Intelligent Page Ranking and Recursive Content Indexing

- Developed a three-component system including web page scorer, **recursive crawler**, and search query interface indexing **1000+** pages
- Deployed search engine interface using **Node.js**, **Express**, **Axios**, and **Cheerio** with regex-based content analysis and ranking algorithms
- Created **automated testing script** with **JavaScript** generating test cases to validate page ranking accuracy and search result quality

## LEADERSHIP & COMMUNITY INVOLVEMENT

### Computer Science Honor Society — Co-Founder, Vice President, President

August 2022 — May 2025

An organization with over 200 chapters dedicated to promoting and recognizing academic excellence in Computer Science

- Founded organization and grew membership to **200+ members**, arranging **50+ educational tutorials** and tournaments with **450+** participants while providing **weekly tutoring** to **20+** students
- Configured PC<sup>2</sup> contest management system with **Java** and **volunteered 100+ hours** coordinating **UIL Computer Science** competitions hosting **800+ participants** across 20 academic events

### Technology Student Association (TSA) — President (2x), Vice President, Freshman Rep.

August 2021 — May 2025

An organization with over 500,000 members worldwide that specializes in technology-based event competition

- Elevated chapter to **2nd in state** rankings by implementing structured training programs and competitive **mentorship initiatives**, growing membership by **over 200%** from 60 to 120+ students
- **Managed \$50,000+** annual budget for regional, state, and national competitions while coordinating travel logistics for **100+ students** and delivering keynote speech to **2,500+ attendees** at state conference

## HONORS & AWARDS

- **Webmaster** (Nationals 23 & 24 | State 24 & 25) — 4<sup>th</sup> and 6<sup>th</sup> Nationals & 1<sup>st</sup> in Texas (Technology Student Association)
- **Software Development** (State 22) — 2<sup>nd</sup> in Texas (Technology Student Association)
- **Data Science** (Regionals 22 & 23) — 1<sup>st</sup> in Gulf Coast Region (Technology Student Association)
- **Convergent Engineering Fellow**
- **Longhorn Developers Engineering Fellow**
- **Hispanic Association of Computer Scientists Member**
- **Hispanic Scholarship Fund Awardee**
- **University of Texas Austin Academy for All Machine Learning** — Participant

## SKILLS

**Technical Skills:** Java, Python, R, Node JS, HTML, React/Next JS, Svelte, MongoDB, Firebase, SQL, AWS, Docker, Data Analysis

**Languages:** Native Spanish Speaker and Writer

**Relevant Coursework:** Calculus I-III, Linear Algebra, Data Science, Data Structures, Discrete Math, Cloud Computing, Cybersecurity

**Certifications:** Unity Certification and AWS Foundations & Practitioner Certification

**Interests:** Ultimate Frisbee, Rock Climbing, Music, Coffee Shops, Messing Around with Siblings and Friends, Making Bad Jokes