SANTIAGO ESPINOZA BLUNDA

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EDUCATION

University of Texas at Austin	**Major in Computer Science**	Present — Expected May 2028
	Expected Minor in Statistics & Data Science	

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

SKILLS

Technical Skills: Java, Python, R, JavaScript, TypeScript, Node JS, UI/UX, HTML, Frontend, React/Next JS, Svelte, Backend, MongoDB, Firebase, SQL, AWS, Docker, DevOps, Data Analysis, Leveraging AI to Develop, Git, TensorFlow, PyTorch, QA testing
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