

SANTIAGO ESPINOZA BLUNDA

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EDUCATION

Seven Lakes High School	Senior Class of 2025 SAT Superscore: Math – 800 Reading and Writing – 710 Total – 1510 Weighted GPA: 4.8448/5.00 Unweighted GPA: 3.9828/4.00 Class Rank: 9/860	Fall 2021 — Present
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PROJECTS AND WORK EXPERIENCE

Karatube AI	Winter 2024 — Summer 2024
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Cofounder and Inaugural Intern <https://karatube.ai/>

- Collaborated with a professional to set up and deploy a Karaoke AI system to broadcast music with extracted instruments and lyrics
- Fully deployed using AWS services (**Lambda, Redis, S3, EC2**) along with Svelte and OpenAI's Whisper API

EcoNest	Fall 2023 — Summer 2024
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Team Manager Technology Student Association Webmaster Submission 23-24 <https://eco-nest.vercel.app/>

- Built with Next JS, Tailwind, Firebase, and Three JS, creating an environment awareness site that placed **6th globally and 1st in Texas**
- Fully equipped with **real-time messaging**, forums, blog posts, and 3-dimensional home modeling

Custom Company Site	Summer 2024 — Present
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Founder and Developer <https://custom-company-site.vercel.app/>

- Used Next JS, Tailwind, Firebase, and React-DND to create a Wix alternative integrating **drag-and-drop functionality** with real-time code editing
- Improved local collaborative web design **efficiency by 30%** in beta testing with real-time multi-user editing capabilities with web sockets

Sparrow	Fall 2022 — Summer 2023
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Team Manager Technology Student Association Software Development Submission 23-24 <https://santiago11234.github.io/Sparrow/>

- Learn-to-code website with interactive lessons and a playground to explore concepts: showcased to **over 100** elementary and middle school students
- Placed **2nd in Texas** in the Software Development competition in Technology Student Association

Code Commit	Summer 2024 — Present
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Founder and Developer <https://code-commit-app.vercel.app/>

- Developed a website to automate code writing by fostering users to code ethically & consistently
- Engineered entirely from scratch with Next JS and Firebase connected with GitHub API running **serverless cloud functions**

Facial Recognition Safety Hall Pass	Fall 2023 — Summer 2024
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Team Manager Technology Student Association Software Development Submission 23-24 <https://safe-guard-id.vercel.app/>

- **Led a team of 6** to create a full-stack electric hall pass system to monitor students going to and from classrooms or restrooms
- Assembled with MongoDB, web sockets, Next JS, Node JS, and fully integrated with **facial recognition** to identify users

Interest Match	Summer 2023 — Present
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Full-Stack Dating Application (currently under maintenance)

- Constructed an interest-based dating app using MongoDB, React JS, Express JS, and Node JS
- Designed a **serverless matching algorithm** with customizable user interests and implemented **real-time messaging** and notifications

University of Texas Austin Academy for All Machine Learning	Summer 2024
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Weeklong summer research program on Artificial Intelligence and Machine Learning

- Analyzed introductory machine learning concepts under leading professors Amy Pavel and Angie Beasley
- Researched k-nearest neighbors, perceptrons, cross-validation, and a self-learning Pacman algorithm

LEADERSHIP & COMMUNITY INVOLVEMENT

Seven Lakes HS Computer Science Honor Society — Co-Founder, Vice President, President	Fall 2022 — Present
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An organization with over 200 chapters dedicated to promoting and recognizing academic excellence in Computer Science

- Arranged **50+ educational tutorials**, meetings, tournaments with **450+ participants**, and tutored **20+ students** weekly
- Oversaw countless Seven Lakes High School UIL competitions hosting **800-900 participants** and **20 Academic Events**
- Configured and **set up PC²** for a locally hosted Computer Science contest, volunteering **100+ hours**
- Hosted weekly Computer Science presentations to **60+** students teaching full-stack development and introducing web development

Seven Lakes HS Technology Student Association (TSA) — President (2x), Vice President, Freshman Representative	Fall 2021 — Present
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An organization with over 300,000 members worldwide that specializes in technology-based event competition

- Increased chapter ranking to **second in the state** by implementing structured training programs and mentorship initiatives
- Grew membership by **over 200%** from 60 to 120+ with organized social media and school-wide outreach programs
- Managed **\$20,000+** in club budget through Regional, State, and National trips while booking hotels and flights for **100+ students**
- Administered and led weekly meetings while facilitating club communication and presented a **speech to 2,500+** live during State conference

Seven Lakes & Beckendorff JH Technology Student Association (TSA) — Founder, Administrator, Teacher Contact	Fall 2023 — Present
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An organization with over 300,000 members worldwide that specializes in technology-based event competition

- Established the **first two Middle School TSA chapters** in the district, accumulating **100+ cumulative members**
- Secured district approval and funding by presenting a comprehensive plan and budget proposal
- Supervised **weekly meetings** while facilitating club communication with **200+ students and parents**
- Mentored Middle School students with **5 Regional placements** and 12 students qualifying for state competition

Global robotics competition with over 100,000 High School competitors from across the globe

- Programmed **autonomous commands**, movement, and other subsystems/commands qualifying for world competition
- Developed a scouting app that has tracked and analyzed **500+ matches** with **over 1,000 entries** to assist in team selection
- Coordinated and executed a coding, web development, engineering, and electrical camp with **over 300 child participants**
- Raised **over \$5,000** in club funding and led team awards committee to receive **Sustainability Award 3x**, gaining the necessary points to qualify for state

Seven Lakes HS Mu Alpha Theta — Senior Officer and Webmaster

Spring 2024 — Present

National organization with over 124,000 students dedicated to promoting scholarship in mathematics

- Oversaw AMC competitions, hosting tutorials to prepare students of which **24 qualified** for AIME competition
- Maintained club tutorial website, coordinating with teachers and students to create a seamless process
- Received a score of **81 in the AMC 12A 2023**, 4.5 points away from qualifying for AIME
- Coordinated monthly meetings and grew membership to over 140 students

Honors & Awards

- **Web Development** (Nationals 23 & 24) — 4th and 6th (Technology Student Association)
- **Web Development** (State 2024) — 1st in Texas (Technology Student Association)
- **Software Development** (State 2022) — 2nd in Texas (Technology Student Association)
- **Data Science** (Regionals 2022 & 2023) — 1st in Gulf Coast Region (Technology Student Association)
- **Web Development** (Regionals 2021 & 2023) — 1st in Gulf Coast Region (Technology Student Association)
- **Drone Design** (Regionals 2023) — 1st in Gulf Coast Region (Technology Student Association)
- **Unique to Texas Personal Website** (Regionals & State 2023) — 1st in Gulf Coast Region and Texas (Technology Student Association)
- **Unique to Texas School Website** (Regionals & State 2023) — 1st in Gulf Coast Region and Texas (Technology Student Association)
- **Unique to Texas Commercial Website** (Regionals & State 2023) — 1st in Gulf Coast Region and Texas (Technology Student Association)
- **Applied Financial Mathematics** — 3rd in Texas (Future Business Leaders of America)
- **Seven Lakes High School Spartan Distinguished Service Award**
- **University of Texas Austin Academy for All:** Machine Learning Participant
- **Inducted member** — Mu Alpha Theta, National Computer Science Honor Society, National Spanish Honor Society, and National Honor Society
- PSAT National Hispanic Recognition Qualifier
- AP Scholar with Distinction
- Cypress Ranch Computer Science Hackathon Winner

SKILLS

Technical Skills: Java, Python, R, Node JS, React/Next JS, Svelte, MongoDB, Firebase, SQL, AWS, Cloud Computing, Data Analysis

Languages: Native Spanish Speaker and Writer

AP Scores: AP Computer Science A: 5, AP Spanish Language and Culture: 5, AP Psychology: 4, AP Statistics: 5, AP English Language and Composition: 5, AP Calculus BC: 5, AP Physics 1: 4, AP Chemistry: 4, AP United States History: 5

Certifications: Unity Certification, AWS Foundations & Practitioner Certification (Expected in December 2024)