Nathaniel E. Paz

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EDUCATION

University of Houston - Clear Lake   **Houston, TX**

Bachelors of Science, Computer Science   Spring 2026 - Spring 2028 (Expected)

- **Concentration**: Full-stack Web Development
- **Related Coursework**: Software Engineering, Design of Database Systems

San Jacinto College - South Campus   **Houston, TX**

Associate of Science, Computer Science   Fall 2022 - Fall 2025

- **Related Coursework**: Introduction to Python Programming, Object-Oriented Programming, Data Structures & Algorithms, and Computer Organization (Assembly Language)
- 3x Dean's List & Honors Student

EXPERIENCE & LEADERSHIP

Professional Organization of Computer Science Majors   San Jacinto College - South Campus

President   Spring 2023 - Fall 2025

- Organized and led regular club meetings focused on software development, emerging technologies, and collaborative coding projects.
- Actively collaborating with faculty advisors to secure resources, maintain club operations, and align activities with institutional goals. Promoted an inclusive culture that encouraged peer mentorship and continual learning among club members.

Supplemental Instructor   San Jacinto College - South Campus

Programming 1, 2, & 3   Spring 2025 - Fall 2025

- Providing one-on-one guidance to students, troubleshooting code errors, and clarifying logic to strengthen understanding and confidence. Developed hands-on coding exercises and mini-projects, helping students apply theoretical knowledge to practical scenarios.
- Taught select lessons during formal class sessions, creating and delivering lecture material on core programming concepts, leading lab activities, and guiding students through real-time coding exercises for deeper engagement.

PROJECTS

JournalXP   Full-Stack Mental Health Journaling App

- Designed and Deployed a full-stack production-grade journaling platform using React, TypeScript, Firebase, and Node/Express. Implemented secure authentication, mood analytics & insights, and real-time cloud-synced entries. Built privacy-first systems with encrypted data handling CI/CD and serving 200+ daily active users.

Pyra.js   Full-Stack App-First Web Framework

- Designed and developed a full-stack framework for building interactive, app-first web applications with integrated CLI tooling. Built unified dev server integrating compilation, file watching, and hot reload logic for fast and optimized developer experience. Engineered bin configuration and supports monorepo project structure..

Programming: Python, JavaScript, TypeScript, HTML/CSS, SQL, C++
Skills & Frameworks: React.js, Node.js, Express.js, Git, pnpm, Firebase, Vite