Edward Nguyen

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Education

University of Houston — Houston, TX
Bachelor of Science, Computer Science; GPA: 3.6/4.0 — *Aug. 2024 – May 2027*

San Jacinto College South — Houston, TX
Associate of Science, Computer Science; GPA: 4.0/4.0 — *Aug. 2022 – May 2024*

Projects

LuChess | *Go, TypeScript, React, PostgreSQL* — Oct. 2026 – Present

- Developed a full-stack note-taking platform for competitive chess players, writing backend APIs in Go with a React (TypeScript) frontend and PostgreSQL database
- Managed PostgreSQL schema migrations with Go (Goose), writing backward-compatible migrations to keep deployments safe, and ran the database in Docker with persistent volumes for reproducible development
- Enforced type-safe API contracts with Zod schema validation on the React frontend
- Wrote Vitest unit tests for React components and contributed Playwright end-to-end tests covering core user flows

Orion | *Python, JavaScript* — Oct. 2026

- Built a voice-controlled Chrome extension agent with a team of four in a 24-hour hackathon (UH Hackathon Red) using JavaScript and Python
- Engineered a Python (FastAPI) backend with 6 RESTful endpoints, implementing strict request validation to ensure reliable frontend integration

SnailMail | *React, Node.js, MySQL* — Aug. 2025 – Dec. 2025

- Led a team of five developers in building and maintaining a full-stack package logistics platform using React, Node.js, and MySQL
- Designed and implemented 50+ RESTful API endpoints in Node.js, integrating them with the React frontend of 28 pages for data exchange, and testing each endpoint with Postman
- Modeled and normalized a relational MySQL schema of 11 tables for packages, users, and shipments; managed collaboration through Git branching and code reviews

Open Source Contributions

career-ops | *JavaScript* — Nov. 2026

- Merged a fix into an 82k-star open-source AI agent, refactoring JavaScript regex to correctly parse Unicode bullets in scraped job data.

Professional Experience

Web Developer, Southwest Union of Vietnamese Student Associations — May 2026 – Present

- Developed the frontend of SWUVSA's website in Astro, collaborating with the design team to translate mockups into responsive pages

Undergraduate Research Assistant, University of Houston — Jan. 2025 – May 2025

- Increased data collection coverage by 5x across the University of Houston campus using research team's software and Raspberry Pi to measure TV signal strength
- Co-presented research poster at the University of Houston Undergraduate Research Day, where the team's DNN classifier reached 78% accuracy across 17 locations

Technical Skills

Languages: Go, JavaScript/TypeScript, Python, HTML/CSS
Databases: PostgreSQL, MySQL
Frameworks: React, Node.js, Astro.js
Tools: Git, Docker, Postman