

Nelson Aviles

Backend & full-stack developer

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Computer Science student at Houston City College aiming at backend and full-stack junior developer roles. Builds backend services, Linux tooling, and small utilities with Python, Nix, and Astro.

SKILLS

Programming: Python, C

Technical: FastAPI, API integration, Web scraping (Selenium, Playwright), SQLite, Markdown documentation, AI-assisted development

Tools: Git, GitHub, Linux (NixOS), Neovim, Docker, Astro, Tailwind

EXPERIENCE

Language Interpreter — Kelly Services

Sep 2023 – Mar 2024

- Delivered on-demand English and Spanish interpretation in high-pressure, customer-facing settings including banking, insurance, and 911 dispatch.
- Managed confidential information under strict ethical standards.

LEADERSHIP

Vice President of Operations — Computer Science Association, Houston City College

Jun 2026 – Present

- Co-leads an 11-member executive board coordinating programming for 100+ active members, and 700+ cumulative across the organization's history.
- Restructured the organization from a Chief Officers to a Directors model in the internal knowledge base; built an event-planning backlog and onboarding runbooks establishing institutional continuity across semesters.

Director of Logistics — HackHCC: Coderunners 2026, Computer Science Association

Nov 2025 – May 2026

- Houston City College's inaugural MLH-partnered hackathon: 300 registrations, 100+ attendees, 28 project submissions.
- Owned the logistics workstream end-to-end over a 7-month planning period; served as primary liaison between student organizers and HCC institutional stakeholders — Dean, Risk Management, Chief of Police, venue director, tech team, funding department, and legal.
- Personally secured a \$4,000 internal HCC department sponsorship, and coordinated with organizing partner MLH (Major League Hacking).
- Negotiated venue access, security coverage, and overnight protocol with HCC West Houston Institute and HCC Police.

Chief Strategy Officer — Computer Science Association, Houston City College

Oct 2025 – May 2026

- Presented multiple workshops on Git, GitHub, and software development; mentored new CS and tech students at weekly meetups.
- Served as a mentor and judge for HackHCC 2026.

PROJECTS

nixos-config — Declarative NixOS config: a full, reproducible Linux desktop and dev environment as version-controlled code, redeployable from one command. · github.com/HefKer/nixos-config

hefker.dev — Personal portfolio site: an Astro and Tailwind static site deployed on Cloudflare Pages. · github.com/HefKer/portfolio

EDUCATION

Houston City College Sep 2024 – Expected Dec 2026
Associate of Science, Computer Science · GPA 4.0

AWARDS

Dean's List — Houston City College · May 2025
Dean's List — Houston City College · Dec 2025