Carlos Luna-Peña

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PROFESSIONAL SUMMARY

CS student at Texas A&M with hands-on experience delivering user-facing web applications and production systems. Skilled in JavaScript, React, HTML, CSS, and modern web frameworks. Proven collaborator in Agile teams, driving accessible UX, code reviews, and rapid iteration.

EDUCATION

Texas A&M University
College Station, TX

B.S. in Computer Science
Aug. 2023 – Present

- Relevant Coursework: Software Engineering, Algorithms, Operating Systems, Artificial Intelligence, Security, Data Structures
& Algorithms
- Writing-intensive (W) program: specs, user stories, retrospectives, demos

EXPERIENCE

AIPHRODITE (Aggies Create)
Sep. 2025 – Present

Team Lead & ML Engineer
College Station, TX

- Led Agile team (standups, sprint planning, PR reviews, onboarding docs) building AI-powered wardrobe assistant web app.
- Implemented computer vision tagging (category/color/pattern) and embeddings, served via FastAPI; designed PostgreSQL schema for retrieval and filtering.
- Optimized recommender UX (weather/occasion/color harmony); improved click-through by user feedback iteration.
- Reduced cycle time and PR rework with rigorous peer review and demo-readiness.
- Containerized services; maintained CI pipeline (GitHub Actions) for consistent deployments.

HECM Hackathon
Feb. 2024

Participant
Raspberry Pi + 6-axis Arm

- Prototyped gesture/face/color tracking demo with real-time control loops; shared reproducible setup and documentation; demoed among peer teams.

PROJECTS

Aggie Events (Next.js, React, Tailwind, Node.js, PostgreSQL, Docker, Google OAuth, GitHub Actions) Aug. 2024 – Present
- Developed responsive UI (search, event detail, org, settings/landing) with accessible, mobile-friendly UX.
- Integrated Google OAuth on front- and backend; implemented secure cookies and CORS handling.
- Extended PostgreSQL schema (events/orgs/likes/views); improved query performance with indexing and tuning.
- Maintained monorepo CI for lint, type-check, and tests; enforced branch protections.

Panda Express POS (CSCE 331 Team Project 2, Agile/Scrum) Fall 2025
- Built RESTful endpoints for inventory, orders, and reporting; implemented role-based access control.
- Wrote integration tests to ensure API reliability; containerized services and deployed stable demo versions.
- Collaborated in retrospectives and status updates to drive iteration.

Panda Express Mobile App (React Native/Expo, TypeScript) Fall 2025
- Developed ordering/menu/loyalty flows; added push notifications, accessibility features, and offline handling.
- Incorporated user study results into iterative improvements.

Personal Web (HTML/CSS/JS) 2024
- Created personal portfolio site with semantic HTML, responsive layout, and theme toggling; optimized Lighthouse scores.

Monee (TAMUhack 2025, Next.js, React, CSV Import, Gemini API, Framer) 2025
- Built gamified financial literacy app; implemented CSV parsing and chatbot advice flows; delivered polished interactions.

Studytick (Electron, React, SQLite) 2024
- Built Pomodoro desktop app with persisted sessions, charts, and auto-update; implemented secure preload bridge.

Aggie Shell (C/C++, Linux) 2024
- Implemented Unix shell with multi-stage pipelines, I/O redirection, background jobs, and robust prompt.
- Used fork/execvp, pipes, dup2, waitpid (non-blocking), cd/chdir, and tokenizer for command parsing.
- Prevented file descriptor leaks and ensured correct stdin restoration.

Technical Skills

Languages: JavaScript/TypeScript, Java, Python, C/C++, SQL

Web: React, Next.js, Tailwind, Node.js/Express, HTML, CSS

Backend/DevOps: PostgreSQL, SQLite, Docker, Git/GitHub, GitHub Actions, Linux, Bash

Auth/Security: OAuth 2.0, secure cookies, CORS, RBAC

AI/Automation: PyTorch, FastAPI, OpenAI API, n8n, Apify

Systems: Processes, IPC, fork/execvp, pipes, dup2, waitpid, file I/O

Practices: RESTful API design, input validation, accessibility (WCAG), unit/integration testing, CI/CD, Agile/Scrum