

Carlos Luna-Pena

956-966-0986 | carlunpen@gmail.com | linkedin.com/in/carlos-luna | github.com/clmoon2

EDUCATION

Texas A&M University

College Station, TX

Bachelor of Science in Computer Science

Aug. 2023 – Present

- **Relevant Coursework:** CSCE 331 (Foundations of Software Engineering), CSCE 411 (Design & Analysis of Algorithms), CSCE 410 (Operating Systems), CSCE 420 (Artificial Intelligence), CSCE 465 (Computer & Network Security), CSCE 313 (Intro to Computer Systems), Data Structures & Algorithms.

EXPERIENCE

AI Closet — Team Lead & ML Engineer

Sep. 2025 – Present

Aggies Create (Team Project)

College Station, TX

- Built an AI wardrobe assistant with a cross-functional **Aggies Create** team; owned ML/backend while collaborating on API/UX.
- Implemented PyTorch CV boxing/tagging (category/color/pattern) and item embeddings; shipped a **FastAPI** REST service with a **Postgres** schema.
- Designed the outfit recommender using weather/occasion constraints and a scoring model (color harmony, mood, novelty); iterated via user feedback.
- Drove team practices: GitHub PR reviews, issue triage, and weekly sprints with lightweight docs for onboarding.

HECM Hackathon

Feb. 2024

Texas A&M Higher Education Center at McAllen

McAllen, TX

- Built a **Raspberry Pi + 6-axis robotic arm** demo with gesture/face/color tracking and control loops; documented a repeatable setup.

PROJECTS

Aggie Events | *TypeScript, Next.js, React, Node.js, PostgreSQL, Docker, Google OAuth, GitHub Actions* Aug. 2024 – Present

- Shipped front-end **pages & components** (search, event detail, org views, settings/landing) in **Next.js** + **Tailwind** with responsive, accessible UX.
- **Integrated Google OAuth** across frontend/backend; configured secure cookies and **CORS**; coordinated environment variables.
- Worked in a **monorepo** with **CI workflows** (lint, type-check, tests) and branch protections to maintain code health.
- Extended **PostgreSQL** schema (events, orgs, likes/views); added indexes and tuned queries.

Monee | *Next.js, React, Node.js, CSV Import, Gemini API (chatbot), Framer*

TAMUhack 2025

- Gamified **financial literacy** app: users complete savings challenges, earn points, and redeem rewards; modern UI with **Framer** interactions.
- Implemented **CSV transaction** parsing to track spending vs. goals; collaborated on **Gemini**-powered advice flows.
- Partnered on API contracts and server logic; future work includes persistent accounts and a production backend.

Studytick | *Electron, React, SQLite, Electron-Builder*

2025

- Built a Windows desktop **Pomodoro** app with **Electron** + **React**; separated main/renderer via a secure **preload** bridge.
- Implemented a **drift-safe timer** and persisted sessions to **SQLite**; added charts for streaks and session history.
- Packaged installers with **electron-builder** and auto-update; added settings, notifications, and global hotkeys.

Homeworkify | *JavaScript, Chrome Extension, Python, HTML/CSS*

Sept. 2023

- Chrome extension to **aggregate homework resources** with retry/backoff and a compact UI for quick lookup.

TECHNICAL SKILLS

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

Frameworks/Libraries: React, Next.js, Tailwind, Electron, Node.js

Databases: PostgreSQL, SQLite

Tools: Docker, Git/GitHub, PyTorch, Linux

Concepts: Data Structures & Algorithms, Operating Systems, OAuth, CORS/rate-limiting