

Aden Ramirez

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EDUCATION

The University of Texas at El Paso

Bachelor of Science in Computer Science, Minor in Mathematics

Expected May 2028

GPA: 3.73 / 4.0

- **Dean's List:** Fall 2024, Spring 2025, Fall 2025 | **2025 Hispanic Scholarship Fund Scholar**
- **Relevant Coursework:** Advanced OOP, Automata & Formal Languages, Operating Systems, Database Systems, Parallel Computing, Matrix Algebra, Probability & Statistics

EXPERIENCE

Google | STEP Intern, Software Engineering

Google Cloud, Workspace Policy Infrastructure

May 2025 - August 2025

Sunnyvale, CA

- Achieved a **30% improvement in p50 latency** for compilation workflows by redesigning the D4 pipeline from batch processing to **per-entity parallelism**, cutting QA latency by **8.3%** and boosting throughput by **15%**
- Migrated **6 core modules** from Apps Framework Producers to PromiseGraph, raising test coverage from **60% to 95%** and shortening code review cycles by **20%**
- Orchestrated a **zero-incident rollout** across Dev, QA, and Prod using a 10-step gated launch plan, backed by **50+ unit and integration tests** and **7 Streamz dashboards** for real-time observability

Boys & Girls Clubs of America | STEAM Specialist

Part-time, on-site

May 2026 - August 2026

El Paso, TX

- Delivered **50+ hands-on STEAM workshops** across **4 Boys & Girls Club locations**, reaching **200+ youth participants** and improving program engagement by **35%**
- Designed and executed **15+ interactive robotics, 3D printing, and coding projects**, driving a **40% increase** in youth participation in STEM-related activities

Lowe's - HSF Retail Immersion Program | HSF Scholar

Hispanic Scholarship Fund, in partnership with Lowe's

August 2026 - August 2026

Charlotte, NC

- Selected as one of a **competitive national HSF Scholar cohort** for a **3-day in-person retail industry immersion** hosted by Lowe's, with **100% attendance and participation** across every session
- Built professional communication and corporate networking skills through sessions with Lowe's associates and HSF leadership on HSF's scholar network, mentorship, and volunteer pathways

PROJECTS

Relay | Next.js 14, TypeScript, Postgres, SSE, Groq, OpenAI, Anthropic

July 2026

- Architected an **async AI task platform** that decouples HTTP intake, background workers, and result delivery, returning a job ID immediately while long-running LLM work executes asynchronously
- Built a provider abstraction unifying **Groq, OpenAI, and Anthropic** behind one workflow interface; streamed live status via **Server-Sent Events** and validated every recipe with **Zod**

Sentinel | Python, FastAPI, React, scikit-learn, Postgres, Redis

June 2026

- Built a fraud-detection platform pairing a reproducible **ML training pipeline** (logistic regression, random forest, isolation forest), a FastAPI scoring service, and a React triage dashboard with drift monitoring
- Delivered feature-level risk explanations and a Redis-backed retraining workflow; scored on **PR-AUC, recall-at-fixed-precision, and cost-weighted loss**

Meridian | Python, FastAPI, React, Typer CLI, Exa, SQLite

July 2026

- Built a semantic-search product on the Exa API, exposing three interfaces (**FastAPI web API, React app, and Typer CLI**) that share a single Python core
- Delivered neural, keyword, and auto search plus **cited answer synthesis**, saved collections, quota-aware caching, and **Markdown, JSON, and CSV exports**

LEADERSHIP & INVOLVEMENT

The Cornerstone Project | Civic Engagement Organizing Fellow

September 2026 - Present

- Organize nonpartisan voter registration and civic engagement outreach on the UTEP campus, coordinating recurring shifts as part of a statewide organizing initiative

Society of Hispanic Professional Engineers (SHPE) | Web Chair

August 2025 - Present

- Led **5+ key digital improvements** including site icon update, leadership page optimization, and content restructuring, compressing **30+ leadership photos** to boost page load speed and user engagement
- Mentor for **MinerSpark**, SHPE's entry-level research cohort for freshmen and sophomores; help teams scope research questions, refine posters, and rehearse presentations across weekly workshops

Google Developer Student Club | Member

February 2025 - Present

- Mentor **3 members** through the club's mentorship program, and attend **10+ workshops** on AI/ML, cloud computing, and mobile development

ColorStack | Social Media Manager, UTEP Chapter

August 2025 - Present

- Manage social media and outreach for the UTEP chapter, growing visibility for underrepresented students in CS through diversity-focused tech events

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, C, Go (Golang), Assembly (RISC-V), Verilog

Frameworks & Libraries: React, Next.js, FastAPI, Node.js, Tailwind, Prisma, scikit-learn, JUnit, WebSockets

Tools & Platforms: Git, Docker, Postgres, Redis, Google Cloud Platform, Vertex AI, Vercel, Render, GitHub Actions

Concepts: Distributed Systems, Machine Learning, LLMs, REST APIs, Async Programming, CI/CD, Testing, Digital Design