

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:** Data Structures & Algorithms, Advanced OOP, Automata & Formal Languages, Computer Organization, Digital Systems Design, Operating Systems, Database Systems, Parallel Computing, Probability & Statistics

EXPERIENCE

Google | STEP Intern, Software Engineering

Google Cloud, Workspace Policy Infrastructure

May 2025 - Aug 2025

Sunnyvale, CA

- Achieved a **30% improvement in p50 latency** for compilation workflows by redesigning the D4 pipeline from batch to **per-entity parallelism**, cutting QA median latency by **8.3%** (642 to 589 ms) 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, delivering a critical system update to production on schedule
- Authored **50+ unit and integration tests** and built **7 Streamz dashboards** to monitor latency, error rates, and system health, enabling real-time observability for the team

Boys & Girls Clubs of America | STEAM Specialist

Part-time, on-site

May 2026 - Present

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
- Tracked attendance and progress for **200+ students** while aligning programming with organizational goals, achieving a **90% session retention rate**

PROJECTS

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

Jul 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, XGBoost, LightGBM, PyTorch, SHAP

Jun 2026

- Built a fraud-detection platform pairing a reproducible **ML training pipeline**, a FastAPI scoring service, and a React triage dashboard with drift monitoring
- Engineered pluggable model adapters for **XGBoost, LightGBM, and a PyTorch autoencoder** with **SHAP** explainability; scored on **PR-AUC, recall-at-fixed-precision, and cost-weighted loss**

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

Jul 2026

- Built a semantic-search product on the Exa API exposed through three interfaces — **FastAPI web API, React app, and Typer CLI** — sharing 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

Lowe's – HSF Retail Immersion Program | HSF Scholar

Hispanic Scholarship Fund, in partnership with Lowe's

Aug 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

Society of Hispanic Professional Engineers (SHPE) | Web Chair

Aug 2025 - Present

- Led **5+ key digital improvements** including site icon update and leadership page optimization, boosting user engagement and page load speed
- Directed content restructuring and image optimization efforts, **compressing 30+ leadership photos** and implementing lazy loading

Coding Interview Club | Technical Committee Member

Sep 2024 - Present

- Solved **100+ problems** across **20+ weekly sessions**; help design technical content and lead peer review on data structures and algorithms

Google Developer Student Club | Member

Feb 2025 - Present

- Attended **10+ workshops** on AI/ML, cloud computing, and mobile development; mentored **2 junior members**

ColorStack | Fellow

Aug 2025 - Present

- Engaged in diversity-focused tech events and organized networking sessions for underrepresented students in CS

TECHNICAL SKILLS

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

Frameworks & Libraries: React, Next.js, FastAPI, Node.js, Prisma, tRPC, Tailwind, JUnit, WebSockets, XGBoost, SHAP

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

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