

Alonso Peralta Espinoza

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EDUCATION

Texas A&M University, College Station, Texas

May 2026

Bachelor of Science in Computer Engineering - Math Minor

GPA: 3.65/4.00

Relevant Coursework: Intro and Advanced Software Engineering, Database Systems, Data Structures and Algorithms, Analysis of Algorithms, Deep Reinforcement Learning, Information Storage and Retrieval, Artificial Intelligence, Computer Systems Design.

TECHNICAL SKILLS

Languages: JavaScript (React, Node.js), Python, C++, SQL, Ruby.

Cloud/DevOps: GCP, AWS, Git, Docker, Terraform, Bash, GitLab, CI/CD.

WORK EXPERIENCE

ValencAI, Remote

Lead AI Engineer

January 2025 – Present

- Engineered an AI-driven document data extraction and management system, cutting costs from \$2500 to \$35 per 1000 pages, reducing processing time from 2-3 weeks to 5-10 minutes, and greatly reducing manual verification.
- Fine-tuned and implemented an AI OCR Model into a full AI pipeline to achieve 98% data extraction accuracy on Safety Datasheets, matching or out-performing human labor for a fraction of the cost.
- Deployed and scalable on GCP (MVP) and AWS (Production) via Terraform with a CI/CD pipeline.

Aggies Create, College Station, Texas

Co-Lead Full Stack Developer

August 2024 – December 2024

- Co-Led a team of 4 to deliver Med Get, an AI-powered data retrieval and visualization app for biotech sponsor NeuroX1.
- Implemented a hybrid retrieval architecture (LLM + BioMixtral 8x22B via LangChain) and RAG system, achieving 5x faster data access and reducing costs by 62% per employee hour.
- Built and delivered a functional full-stack platform using React, Node.js, and Python, later adopted by the sponsor.

Full Stack Developer

January 2024 – May 2024

- Prototyped the first version of Med Get using Python (Streamlit, PyChart) and early RAG concepts.
- Secured \$2000/month sponsorship funding by delivering a working MVP used as a proof-of-concept.

Headstarter.ai, Remote

Software Engineering Fellow

July 2024 – September 2024

- Completed an industry fellowship with mentorship from engineers at Google, Meta, Apple, and DoorDash, tech founders from the US and around the world, and research professionals from Stanford and Berkeley.
- Built five AI-enabled full-stack projects, leveraging JavaScript, Python, LangChain, Pinecone, AWS/GCP, Firebase, LLM APIs, and Computer Vision.

OpenHub, Louvain-La-Neuve, Belgium

Software Engineering Intern

June 2024 – August 2024

- Designed and deployed a full-stack platform to remotely manage a 3D printer farm, enabling 7x more printers to be operated simultaneously by dozens of employees.
- Sole developer: implemented React + Node.js + Python services with Firebase-backed auth, database, and hosting.

PROGRAMMING PROJECTS

Practice Problem Generator | University-Sponsored Project

January 2025 – May 2025

- Collaborated in a team of 6 to build a full-stack problem generator study platform for Texas A&M's Engineering Department (PHYS/ENGR-216), working directly with a professor as the client.
- Developed primarily in Ruby on Rails with HTML/CSS; implemented a randomized generation workflow of 40 templates across 10 topics, producing unlimited unique practice variants for the students.

LEADERSHIP AND COMMUNITY ENGAGEMENT

Software Engineering Consultant at **Aggies Create**, College Station, Texas

January 2024 – December 2024

- Co-Lead Full-Stack Developer on a consultancy project given by NeuroX1, a biotech firm in Austin, Texas.
- Won 3rd Place on Spring 2024's awards for best teams due to Med Get, NeuroX1's project.

ADDITIONAL SKILLS AND INTERESTS

Languages: Fluent in *English* and *Spanish*

Interests: Basketball, Gym, Billiard, Traveling, Finance, Startups, System Design, AI/ML/DL/DRL/RL, and Quantum Tech.

Certificates: Cypher Graph Data Science; AWS: Architecting Solutions, Designing Data Lakes, Cloud Technical Essentials.