

Angel Vega

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EDUCATION

B.S. Computer Engineering

Minor in Applied Mathematics • Texas A&M University • College Station, TX • Expected Graduation: May 2027

• **Selected Coursework:** Machine Learning; Data Structures & Algorithms; Database Systems; Probability & Statistics; Linear Algebra

EXPERIENCE

Software Engineer Intern, Data Systems

Volkswagen

May 2024 - August 2024, Remote (Chattanooga, TN)

- Built a Python Monte Carlo model to analyze the vehicle handoff flow. Found two bottlenecks and reduced lead time **16%** in **8 weeks**.
- Automated SQL to Tableau reporting. Cut prep time from **2 hours to 45 minutes**. Containerized and added CI for repeatable runs.
- Wrote a Python script that identified duplicate vehicle specification records across production databases, streamlining data integrity checks and reducing manual reconciliation workload for downstream analytics teams.

Software Engineering Intern

H-E-B

May 2023 - August 2023, Austin, TX

- Wrote C++ tools that reconciled POS, receiving, and inventory for Fresh, Grocery, and Deli. Used hash joins and batched MySQL updates. Saved **80+** hours per **month** and slowly cut shrink errors by **40%**.
- Built a modular C++ logging system with a small Python wrapper for analysis. Enabled faster root-cause reviews and cleaner exports for QA.
- Refactored legacy scripts into tested C++ modules with clear error handling and CI. Kept job **success** above **95%**.
- Devised automated data validation pipelines in Python to streamline nightly batch processes for store-level sales and inventory records, increasing throughput and consistency of gap analysis reporting.

Professional Sales Specialist Intern

Keating Auto Group

May 2025 - August 2025, Houston, TX

- Sold **81** units in **90** days; **\$130K** in front end gross; while maintaining 93% CSI.
- Built a delivery-prep tracker with service/parts; improved on-time delivery in peak periods.
- Automated CRM follow-ups with **n8n** (email/SMS, quiet hours, opt-outs) in order to cut first-contact time to **minutes**.

PROJECTS

Merchant

Rice Hack • github.com/advegaf/Merchant/ • September 2025

- **Designed** low-power location tracking **using CoreLocation Visits + coarse updates** → **reduced location energy use ~85%** vs continuous CLLocationAccuracyBest polling while maintaining timely updates.
- **Converted** latitude/longitude to human-readable addresses **using MapKit reverse search** → delivered reliable venue context and **reset sessions at >75m** movement to keep recommendations relevant.
- **Built** a card recommendation engine **using a benefits catalog (~16 cards, ~51 category reward rates across 16 spend categories)** → **lifted expected rewards up to 5x** in eligible categories vs 1x baseline.
- **Developed** a time-sensitive notification system **using UNUserNotificationCenter** (**1s** trigger, **≤1/hr per-P.O.I** rate limit, audit log) → **delivered suggestions ~1 s after detection** and **prevented duplicate pings** within the hour.

INVOLVEMENT

Vice President

Texas A&M University • Aggie Machine Learning Club • August 2024 - Present

- Grew membership to **76** active students in **12** months.
- Built partnerships with Houston-based **Cognite LLC** to secure project datasets and mentorship for club competitions.
- Ran weekly Python and machine learning labs focused on hands-on model building and code review.
- Led resume and elevator pitch sessions before career fairs.

SKILLS

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

Back-End: Spring Boot, Node.js/Express, REST APIs

Front-End: React, Next.js

Data: MySQL, PostgreSQL, Pandas, scikit-learn

DevOps: Docker, GitHub Actions, AWS (EC2, S3)