Andrei Johan Carpena

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EDUCATION

The University of Texas at Dallas — **Richardson, Texas**
B.S. in Computer Information Systems & Technology — 2024 - 2028

EXPERIENCE

Velocity Sim Racing Lounge — **Houston, Texas**
Software and Data Engineering Intern — June 2025 - September 2025
- Monitored system performance and optimized database workflows for 200+ users.
- Optimized 5+ schemas, boosting retrieval speeds 30% and dashboard load times 20%.
- Automated 100+ monthly payments, improving data accuracy and governance by 40%.
- Resolved technical issues and supported cross-team troubleshooting efforts.

HEB — **Tomball, Texas**
Curbside Associate (Curbie) — October 2023 - July 2024.
- Processed 70+ curbside orders per shift with high accuracy and service quality.
- Improved workflow efficiency, reducing order wait times by 1–2 minutes.

Aji Robata and Ramen — **Tomball, Texas**
Waiter — June 2022 - December 2022
- Delivered efficient service during peak hours while maintaining guest satisfaction.
- Trained 3+ new staff, improving team speed and service consistency by 20%.

Projects

Velocity Membership and Booking System — **Houston, Texas**
Project || Python, Azure App Services, C#, Azure SQL — June 2025 - September 2025
- Built booking dashboard interface enabling clearer visualization of member data.
- Analyzed requirements to align data models with reporting and BI best practices.
- Collaborated with cross-functional teams to align technical solutions with business objectives.
- Sharpened skills in web development, requirements gathering, and process optimization.

Project Apollo — **Spring, Texas**
Project || SQL, Raspberry Pi, Python, Slack — May 2023 - June 2023
- Built IoT pipeline using Raspberry Pi 4, AM2302, and Python for 30-minutes environment tracking.
- Integrated Slack API and webhooks for automated alerts, dashboards, and cross-platform access.
- Automated data preprocessing for time-series analysis to identify temperature-humidity trends.
- Enhanced data reliability, and reporting accuracy for better insights and visualization quality.

Extracurriculars

Pi Kappa Phi — **University of Texas at Dallas**
Philanthropy Chair — January 2025 - Present
- Led Bike-a-Thon with 40+ members, raising $7,000 for disability awareness.
- Managed logistics, outreach, and sponsor engagement to support fundraising.

Zeta Omicron Computer Science National Honor Society — **Klein Oak High School**
Vice President — August 2023 - May 2024
- Organized 10+ STEM events and meetings supporting CS education initiatives.
- Coordinated outreach, tutoring, and workshops for 20+ student members.

SKILLS

Technical Skills: Python, SQL, Java, C++, Databricks, Azure Cloud
Languages: English (Native), Tagalog (Fluent)