

# Adolfo Fidel Chavez IV

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## SKILLS SUMMARY

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- **Programming:** with JavaScript, JSX, HTML, CSS, Python, C++, React, React Native, Node
- **Technical:** ML data analysis (MATLAB), prompt engineering with LLMs, relational/NoSQL databases, Firebase DBMS/authentication, UI/UX implementation, Agile dev framework, Git, extensive documentation, cross-functional team leadership
- **Relevant Courses:** Data Mining, Info & Knowledge Management, Net-Centric Computing, Operating Systems

## EDUCATION

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### Bachelor of Science in Computer Science / Business Administration Minor

University of Texas at Tyler, Tyler, TX

## PROJECT PROFILE & WORK EXPERIENCE

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### Team Lead, Programming Lead | Sponsored AI Home Maintenance App Fall 2025

- Full-Stack Development: Led architecture and development of a cross-platform mobile application using React Native and Expo, managing the entire development lifecycle from prototype to presentation.
- Leveraged Gemini 2.5 Pro to build an image-to-advice engine, utilizing Large Language Models (LLMs) for complex visual diagnostics.
- Developed a scalable NoSQL schema in Firestore and managed secure user sessions with Firebase Auth.
- Team Leadership: Coordinated tasks, project timelines and deliverables for a 4-person engineering team, ensuring milestone delivery for the annual Capstone Expo.
- Achievement: Won 1<sup>st</sup> Place at the UT Tyler Capstone Expo for excellence in software engineering and product design.

### Full-Stack Developer | Dadvice AI

Summer 2025

- Full-Stack Development: Built an interactive web app utilizing the Llama 3.2 1B-Instruct LLM with an iteratively engineered system prompt, oriented towards accuracy and convenience.
- Created a WSGI-compliant, production-ready Python backend (Flask, waitress) to manage REST requests for the frontend, complete with secure edge computing with cloudflared.

### Full-Stack Developer | Closest EV Charging Station Web App

Summer 2025

- Full-Stack Development: Retrieved and processed geographic data from public databases, using Google Maps API to create a navigable, efficient UX design.

### Computer Technician, TechnoCycle, Houston, TX

May 2020 – April 2022

- Prepared servers and computer systems for resale through system diagnosis and data wiping processes.
- Repaired servers, laptops, PCs, and all-in-ones with a variety of RAM, CPU, power supply, and hard drive components.
- Received 7.6% pay raise while achieving highest weekly asset completion marks on my team by 11%.

### Retail Associate, JCPenney/American Eagle Outfitters/ZARA/Fossil

Fall 2025 – Present

- Provided exceptional customer service in a fast-paced environment.

## CERTIFICATION/HONORS

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### Jungle Scout Scholarship

Fall 2020

- A program hosted by Jungle Scout, an ecommerce organization, recognizing and supporting college students with innovative ideas in computer science and business

### Capstone Exhibition 1<sup>st</sup> Place Presentation

Fall 2025

- An annual program for UT Tyler's capstone class presenting rising entrepreneurs in computer science/information technology