

# FERNANDO FLORES

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## CAREER SUMMARY

Junior Software Engineering student with strong background in systems engineering concepts, backend development, process optimization, and data-driven software solutions. Experienced in developing software projects, implementing efficient algorithms, and applying Agile practices. Skilled in technical communication, problem-solving, and delivering user-focused solutions. Certified Microsoft Office Expert with proven ability to bridge technical insights with business needs.

## EDUCATION

**Bachelor of Science, Software Engineering** ..... **Est. Graduation – May 2027**

The University of Texas at Dallas | *Richardson, TX*

**Associate of Science, Software Programming** ..... **May 2023**

Dallas County Community College District | *Dallas, TX*

## RELEVANT COURSEWORK

Professional and Technical Communication, Data Structures and Algorithms, Computer Science, Database Systems, Operating Systems, Probability & Statistics in Software Engineering, Systems Programming in UNIX

## SKILLS & CERTIFICATIONS

- **Programming Languages:** Java, Python, C/C++/C#, SQL, JavaScript, HTML/CSS, FastAPI, Vue, Node.js
- **Tools:** Git/GitHub, Docker, Linux/Unix, Bash, Trello, Agile/Scrum, Visual Studio, IntelliJ IDEA
- **Systems & Databases:** PostgreSQL, SQL Design, ER Modeling, Indexing, Constraints, Bash Scripting
- **Microsoft Office Certified Expert:** Word, Excel, PowerPoint, Access, Outlook
- **Project Management & Communication:** Sprint planning, task tracking, team collaboration, technical writing
- **Languages:** English (Native), Spanish (Fluent)

## PROJECTS

**Study Spots @ UTD – Full-Stack Web Application (FastAPI, PostgreSQL, Vue, Python)** ..... **2025**

- Developed a full-stack platform for UTD students to search, rate, and save campus study spots.
- Implemented a PostgreSQL database with relational schema, constraints, and data-validation logic.
- Built a FastAPI backend supporting secure authentication, hashed passwords, CRUD endpoints, and RESTful routing.
- Developed reliable API-driven workflows connecting frontend components to backend systems for consistent data flow.

**Package Delivery Tracker – Java** ..... **2024**

- Implemented a graph structure to validate delivery routes, calculate path weights, and identify invalid paths.

**Autonomous Robot Competition (FTC/FRC) – Java, C++** ..... **2021 – 2023**

- Directed programming, calibration, and control system development in Java for autonomous navigation.
- Achieved 1st place in the 2022 *FIRST Tech Challenge* Texas Regional competition and ranked #3 globally at the 2023 *FIRST Robotics Competition* World Championships.

**Database Management System – Java** ..... **2024**

- Built a binary search tree to manage and sort data records for a Barcode game database.

## WORK EXPERIENCE

**Supervisor | 7ABC** ..... **2019 – Present**

- Led a team in a high-volume environment, ensuring accurate financial reporting and timely service.
- Trained and supervised a small team of employees while overseeing daily wire transfer processing. Managed check cashing, money orders, and wire transfers, ensuring compliance with financial policies and security protocols.
- Streamlined bookkeeping and inventory management with an AI-driven system, reducing error rate by 50%.