

Mohamad N. Alkhateeb

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EDUCATION

The University of Texas at Arlington.

Arlington, Texas

B.S. in Computer Science

Expected Graduation, Dec 2025

- **Concentrations:** Artificial Intelligence, Data Systems, and Big Data Analytics.
- **GPA:** 3.4
- **Completed Coursework:** Data Structures & Algorithms, Software Design, Computer Organization & Programming, DBMS Models and implementation, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Operating Systems, Information Security, and Network Organization.
- **Student Organizations:** Engineering Challenge Club, Leadership Honors Program.

TECHNICAL SKILLS

- Programming Languages: Java, Python, SQL, php, C/C++, Kotlin, JavaScript, HTML, Swift, ARM Assembly.
- Development Environments: Linux, Unix, Ubuntu, Android Studio, Node.js, Valgrind, Visual Studio, Eclipse.
- Methodologies: Agile, Waterfall, Scrum.
- Other Tools: Git, StarUML, Shell, Makefile, phpMyAdmin, SQLite Studio, Figma, Docker, GDB, COCOMO.

WORK EXPERIENCE

American Wholesale Dist.

Arlington, Texas

Operations Manager

May 2022– Aug 2023

- Implemented cost-effective inventory management strategies, saving the company \$50,000 annually.
- Analyzed system-generated reports to track customer trends and improve workflow efficiency, contributing to data-driven decision-making.
- Managed a team of 15+ employees, achieving almost 98% on-time delivery rate.

Valvoline Express Care

Arlington, Texas

Operation Manager/Front Desk

May 2024 – Present

- Operated and maintained customer management software, ensuring accurate data entry and efficient information retrieval for optimized service.
- Resolved technical issues with the shop's software, showcasing problem-solving skills and attention to detail.
- Collaborated with management to ensure the integrity and security of customer data, reinforcing adherence to data protection protocols.
- Built and maintained strong client relationships, leading to a 95% customer retention rate.

TECHNICAL PROJECTS

QuickFin: Financial Helper App

Arlington, Texas

Team Lead

Aug 2024 – Dec 2024

- **Designed and developed** an Android app, "QuickFin," using Kotlin and Android Studio, offering multiple financial calculation tools.
- **Implemented key features** including an investment calculator, currency converter, and savings advisor, enhancing user financial decision-making.
- **Collaborated within a team** to ensure seamless integration of all features and optimize app performance through agile development practices.
- App demo: <https://youtu.be/DCBa3raniM?feature=shared>

BestPriceStore: Database & Website

Arlington, Texas

Team Member

Aug 2024 – Dec 2024

- Designed an ER diagram to model the database for a store called "Best Price Store" using SQL.
- Designed a database for the website using SQL to support querying, adding, and updating records.
- Developed a dynamic website for the store using PHP to handle inventory and customer transactions and integrated it with the SQL database.

B+ Tree Implementation: Index File Organization for DBMS MINIBASE.

Arlington, Texas

Team Member

Jan 2025 – Feb 2025

- **Implemented a B+ Tree index** for efficient data management in a database system using Java.
- **Handled key operations** such as insertions and deletions, enhancing system performance.
- **Applied theoretical concepts** practically, improving query response times and scalability.

Transaction Manager – Concurrency Control Simulation

Arlington, Texas

Team Lead

Jan 2025 – Feb 2025

- **Implemented a transaction manager in C** to simulate concurrency control using strict two-phase locking (S2PL).
- **Handled transaction operations** (begin, read, write, commit, abort) with thread synchronization using semaphores.
- **Ensured correct execution order** and isolation by managing shared/exclusive locks.