

## 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, DBMS Models and implementation, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Operating Systems, and Information Security, and Operating Systems.
- **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, Hadoop, GDB, COCOMO.

### WORK EXPERIENCE

#### Valvoline Express Care

Arlington, Texas

Operation Manager/Front Desk

May 2024 – Present

- Maintained customer management software, ensuring accurate data entry and efficient retrieval for optimized service.
- Resolved technical issues with the shop's software, showcasing problem-solving skills and attention to detail.
- Built and maintained strong client relationships, leading to a 95% customer retention rate.

#### American Wholesale Dist.

Arlington, Texas

Operations Manager

May 2022– Aug 2023

- Implemented cost-effective inventory management strategies, saving the company \$50,000 annually.
- Tracked customer trends and optimized workflow efficiency through system report and data-driven decisions.
- Managed a team of 15+ employees, achieving almost 98% on-time delivery rate.

### TECHNICAL PROJECTS

#### CNN Augmentation Analysis – Image Classification Performance Study

Arlington, Texas

Team Lead

Apr 2025 – May 2025

- **Built and trained** baseline and augmented CNNs on CIFAR-10 using PyTorch and torchvision.
- **Evaluated** model performance using accuracy plots, confusion matrices, and per-class analysis.
- **Achieved +1.7%** test accuracy improvement through augmentation with crop, flip, and jitter.

#### IMDb Data Analysis using Hadoop and SQL

Arlington, Texas

Team Member

Mar 2025 – Apr 2025

- **Developed Hadoop** MapReduce jobs to analyze IMDb data and extract genre-based movie trends over three decades.
- **Implemented SQL** queries on a large-scale Oracle database (~50M rows) to retrieve top-rated films with genre filters.
- **Visualized** genre trends across decades using Python with pandas and matplotlib to process and plot MapReduce output.

#### Transaction Manager – Concurrency Control Simulation

Arlington, Texas

Team Lead

Feb 2025 – Mar 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.

#### 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

#### QuickFin: Financial Helper App

Arlington, Texas

Team Lead

Aug 2024 – Dec 2024

- **Developed QuickFin**, an Android app in Kotlin, providing diverse financial calculations.
- **Integrated** investment calculator, currency convertor, savings advisor, and more - to enhance financial decision making.
- **Collaborated within a team** to integrate features seamlessly and optimize **QuickFin's** performance using agile method.
- App demo: [Application Demonstration](#)

#### 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.
- **Built a dynamic PHP-based** store website, managing inventory and transactions with database integration.