

# Omer Khan

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## EDUCATION

### University of Texas at Arlington

Arlington, TX

*Bachelor of Science in Software Engineering*

Aug. 2022 – December 2025

- **Relevant Coursework:** Data Structures and Algorithms (C/C++), Databases (SQL), Operating Systems(C), Linear Algebra w/Computational Applications (Python), Theoretical Concepts

## EXPERIENCE

### Software Engineering Intern

May 2023 – August 2023

*Farmers Insurance Group*

Garland, TX

- Optimized the quality of data by developing and continuously improving data collection and automated upload strategies.
- Broke down and evaluated user problems, using test scripts personal expertise and probing questions.
- Maintained Linux operating systems.
- Made recommendations on gathering data that could be aggregated to reduce cost of operations.

### Software Engineering Intern

May 2023 – August 2023

*TSB Transportation Services*

Mesquite, TX

- Developed a fleet maintenance system with Java, leading to a 25% increased up-time, saving costs, and improving operational efficiency.
- Compiled comprehensive technical documentation to ensure future teams could effectively maintain and enhance the software applications.
- Established a UX feedback loop, where insights were derived from a curated network of personal and professional contacts to inform design decisions.

### Software Engineering Intern

May 2022 – August 2022

*Qday Walk-In Clinic and Spa*

Plano, TX

- Engineered a cost-effective and streamlined patient registration system using Typescript and Express, reducing registration times by 25% .
- Increased clinical efficiency in analyzing patient data by 15% by leveraging Third-Party APIs and complex SQL queries.
- Automated menial data entry tasks by writing Python scripts, saving 15 hours per week for clinical staff.

## PROJECTS

### SmartPaws | *MongoDB, Express, React Native, Node.js* [Github Link](#)

January 2024 – May 2024

- Led the design and development of an AI-powered pet health tracker app, leveraging Mongo and the OpenAI API to provide tailored queries concerning users' pets.
- Integrated OpenAI Assistant to improve mobile app performance and reduce API costs.
- Enhanced RESTful API routes to achieve sub-200ms average response time by implementing caching mechanisms and optimizing query parameter handling.

### FantasyAI | *MySQL, Springboot, Maven, React, Java*

December 2023 – January 2024

- Created a natural language interface to easily query sports data by leveraging the OpenAI API.
- Integrated data visualization tools to present fantasy football statistics in an interactively appealing manner that elevated user engagement and data comprehension by using D3.js.
- Designed and developed an intuitive user interface, providing users with an engaging platform for accessing real-time fantasy football statistics and updates by leveraging Tailwind CSS.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, MySQL, JavaScript, TypeScript, HTML/CSS,

**Frameworks:** Node.js, Express.js, Material-UI, RestAPI

**Developer Tools:** Git, Github, JUnit, Jest, npm, Maven, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Webstorm

**Libraries:** React, pandas, NumPy, Matplotlib, Axios, Mongoose, Cors, Redux