

Omer Khan

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EDUCATION

University of Texas at Arlington

Arlington, TX

Bachelor of Science in Software Engineering

Aug. 2022 – May 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

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 – Present

- 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.

Job Scheduler | C

June 2023 – July 2023

- Built a job scheduler that efficiently managed and allocated CPU resources for multiple concurrent tasks.
- Implemented scheduling algorithms such as round-robin and priority scheduling, allowing for flexible task prioritization and execution.
- Designed and optimized data structures to maintain a queue of pending jobs, ensuring efficient job dispatching and CPU utilization

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