

# Muhammad Khurram

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## EDUCATION

### University of Texas at Arlington

May 2026

*Bachelor of Science in Computer Science, Minor in Mathematics*

*GPA: 3.72*

**Relevant Coursework:** Data Structures & Algorithms, Relational Database & File Structures, Operating Systems, Software Engineering Principles, Object-Oriented Programming, Engineering Probability, Linear Algebra, Computer Assembly

**Leadership:** ACM UTA (Treasurer), Engineering Student Council (Treasurer), SASE UTA (Research Lead)

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, TypeScript, C/C++, Kotlin, SQL (MySQL, PostgreSQL), PHP, HTML, CSS

**Frameworks:** Node.js, Flask, React, Next.js, JUnit, Tailwind CSS

**Developer Tools:** Git, GitHub, AWS, Docker, Kubernetes, Linux, Unix, MongoDB, Firebase, Selenium, Visual Studio

## EXPERIENCE

### Software Engineer Intern | FreshFrosh

Node.js, JavaScript, Firebase, Git, NLTK, auth0

*Santa Clara, CA*

*Jun 2024 - Sep 2024*

- Developed and deployed a scalable backend system, enabling a resume parsing application to accurately process data from over 100 distinct resume types, enhancing candidate matching efficiency.
- Optimized the backend infrastructure to scale seamlessly, supporting 5,000 concurrent monthly users with asynchronous processing, ensuring system reliability in a high-demand environment.
- Architected a robust NLP pipeline using NLTK and Scikit-Learn, categorizing user submissions into 50+ classifications, improving user differentiation for startups, and achieving a 30% increase in matching accuracy.

### Research Assistant | UT Arlington SASE RIG

Flask, Python, SQL, Git, JavaScript

*Arlington, TX*

*Jan 2024 - May 2024*

- Led a cross-functional team in the agile development of a class management app, designing a modular RESTful API that supported real-time updates for over 40,000 records, ensuring system reliability.
- Enhanced backend database to efficiently manage 25,000+ data entries, achieving a 90% decrease in system crashes, leading to a more robust and efficient system.
- Designed test plans and test scripts based on project specifications, conducting functional and regression testing using test automation tools, resolving over 50 edge cases, boosting system stability by 85%

### Web Developer Intern | Kiwi Motors LLC

Flask, Python, Git, HTML, CSS

*Rowlett, TX*

*Jan 2023 - Mar 2023*

- Collaborated with a senior developer to optimize front-end performance using JavaScript, applying SEO best practices, such as meta tag improvements and content structuring, resulting in higher search rankings.
- Transformed UI designs from Figma into responsive, pixel-perfect front-end code using Bootstrap, ensuring consistent and flexible user experiences across multiple devices.

## PROJECTS

### MavGrades: Grade Distribution App (Github)

Next.js, JavaScript, React, Tailwind CSS, SQLite

- Developed an interactive grade distribution visualization app for UT Arlington professors, using React and Chart.js, accumulating a user-base of over 10,000 users and 500 daily active users.
- Optimized search functionality for a dataset of over 50,000 grade entries by implementing efficient indexing and query strategies in SQLite, reducing query response time by 40%.

### MoCo: Video Conferencing App (Github)

Next.js, TypeScript, Clerk, Tailwind CSS

- Engineered a scalable video conferencing platform by integrating Clerk for authentication and getstream for real-time messaging, enhancing collaboration functionalities.
- Designed a responsive interface with Tailwind CSS, featuring personalized meeting rooms with unique links, scheduled meetings with logs, and accessible recorded session viewing to optimize user accessibility.

### MoCk: AI Mock Interview App (Github)

Next.js, React, JavaScript, Clerk, PostgreSQL

- Developed a mock interview web application using Next.js and React, integrating Clerk for secure authentication, resulting in a seamless user login experience and protected user data.
- Generated interview questions using Google's Gemini API, recording user responses via web and microphone, achieving a 50% improvement in the accuracy of feedback provided to users.
- Implemented a robust data storage solution using Drizzle ORM, storing login information and interview data, enabling users to access their interview history and review feedback through a personalized dashboard.