Zohair Khan

Motivated Senior CS Student looking for Software Engineering Internships

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EDUCATION

- **Metropolitan State University** — St. Paul, MN
  Bachelor of Science in Computer Science — *Expected Dec. 2024*
  Relevant Coursework
- Computer Architecture & Organization, Algorithms & Data Structures, Object-Oriented Design & Implementation, Database Management Systems, Networks & Security, Organization of Programming Languages, Computational Linear Algebra, Discrete Mathematics, Probability & Statistics, Technical Writing, Operating Systems (Spring 2024)

SKILLS

- **Programming Languages:** Proficient in Java, Python, C, C++. Entry-level HTML/CSS/JavaScript.
- **Databases:** Proficient with SQL, including MySQL and SQLite.
- **Software Development:** Version Control/Git, Unit Testing, Complexity Analysis, Technical Writing
- **Operating Systems:** Windows, Linux
- **Soft Skills:** Attention to Detail, Creative Problem Solving, Collaboration, Technical Communication

EXPERIENCE

- **Math & ACT/SAT Prep Tutor** — Minneapolis, MN
  Self-Employed — *July 2020 - Present*
  - Providing personalized tutoring sessions to high school students in various math subjects, including Algebra, Geometry, Trigonometry, and Calculus, tailoring lessons to meet individual learning styles and needs.
  - Developing comprehensive ACT/SAT preparation plans, incorporating strategies, practice tests, and targeted review sessions to help students maximize their scores.
  - Demonstrating a strong ability to articulate complex technical concepts in a clear and concise manner, effectively communicating with students of varying backgrounds and skill levels.
  - Consistent track record of success in significantly raising students' grades and standardized test scores.

ACHIEVEMENTS

- **CornHacks 2024** (GitHub) — **2nd Place**
  Feb 2024 — *Python, PyGame, MySQL*
  - Led a 4-person team comprised of undergraduate students from various academic years during a 24-hour hackathon, developing a PyGame-based roguelike game based on the hackathon's theme.
  - Applied object-oriented programming principles to architect and implement engaging gameplay elements.
  - Integrated a dynamic combat system, strategic power-ups, and a scoring mechanism, augmented by a SQL-powered leaderboard to foster competitive engagement.
  - Organized workflow efficiently, leveraging each team member's strengths to delegate tasks effectively and optimize productivity throughout the 24-hour development process.

PROJECTS

- **Decklist Auto-Filler Extension** (Chrome Web Store) — *HTML, CSS, JavaScript*
  - Google Chrome extension for automatically migrating YuGiOh decklists from popular online simulators to tournament registration websites. **100+ daily users.**
  - Converts a Base64 encoded string into a list of card IDs, converts the IDs to card names, then seamlessly populates an HTML registration form with the card names.
- **Car Sales Application** (GitHub) — *Java, JavaFX/FXML, MySQL, Gradle*
  - Full-stack application for selling cars with a JavaFX/CSS front-end and Java back-end. MySQL database used with JDBC to store and manage all listing and user information, ensuring data integrity and reliability.
  - Implemented user authentication functionalities allowing users to log in and out, as well as create, delete, and view listings for cars.
- **Mock Bar Management Application** (GitHub) — *Java, Swing, MySQL, Maven*
  - Full-stack application for managing a "mock" bar, with a Swing front-end and Java back-end.
  - JDBC used to perform CRUD operations on a MySQL database with bar-related data, including ingredients, suppliers, employees, and more.
- **Chat Room Application** (GitHub) — *Python*
  - UDP socket based chat server and client program written in Python.
  - Server allows multiple clients to connect simultaneously and communicate with each other through public and direct messages.
- **TLS File Transfer Application** (GitHub) — *Python*
  - Secure file transfer application implementing TLS encryption to transfer files from a client to a host, written in Python.