

USMAN KHAN

Software Engineer

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EDUCATION

UNIVERSITY OF WISCONSIN - MADISON | *Bachelors of Science in **Computer Science*** August 2021 - May 2025
Relevant Courses: Data Structures, Algorithms, Discrete Math, Big Data Systems, Machine Learning
Machine Organization, Programming I, II, III, Intro to Electrical & Computer Engineering, UI/UX, Operating Systems

SKILLS

Technologies: Java | Python | C++ | C | AWS | Lua | JavaScript | HTML/CSS | React | SQL | GitHub | Node.js | MongoDB | Linux | Microsoft Word, Excel, Powerpoint Certified | IntelliJ | Docker | Google Cloud | JUnit | UNIX | Data Structures | Algorithms | Apache Spark | Pipelines

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER INTERN | Fannie Mae | Washington, D.C. June 2024 – August 2024

- Worked with ESR Application team to lead development of **automated resiliency**, an efficient way to reroute system traffic to a healthy region **in under 10-minutes**. Researched and reported process of tailoring application to support the new resiliency pattern.
- Integrated required AWS components and services , **Route53, Lambdas, SNS, Step Function, etc.** to support automated resiliency patterns to **increase failover and fallback efficiency**, went into production by the end of summer. Presented to the team, Director of Technology, and ESR stakeholders.

FOUNDER & SOFTWARE DEVELOPER | Sabr Web Development & Marketing Agency | Chicago, IL December 2022 – August 2023

- Founded and led a high-performing digital agency specializing in comprehensive **web development, mobile application creation, and digital marketing solutions**. Successfully secured contracts with local businesses to serve as their go-to digital transformation partner.
- **Managed a dynamic team of 10+** multidisciplinary professionals, fostering a collaborative work environment that optimized individual talents for project success. Achieved consistent financial growth, generating a monthly-recurring revenue of **\$10,500 per month**.

APPLICATION DEVELOPMENT ENGINEER AND INSTRUCTOR | Code For Fun | Sunnyvale, CA May 2020 – July 2020

- Worked alongside CEO Servane Demol to **conduct 20+ coding sessions**, engaging and educating children aged 8-14 in foundational coding concepts and logical thinking.
- Used **Lua** as primary language to **develop 7 games with 5,500 total users/players** on Roblox to teach students how to design and build a full-stack application and upload to Roblox Cloud

INFORMATION TECHNOLOGY INTERN | Advocate Health Care | Elgin, IL March 2019 – March 2020

- Enhanced system security by implementing advanced network security protocols, **reducing vulnerability incidents by 35%** through the use of **firewalls and anti-virus software**.
- Efficiently **led software upgrades for over 200 workstations** across various departments, **ensuring a 99% success rate** with minimal downtime using effective project management techniques.

PROJECTS

LUNCHMONEY (MLH HACKATHON 1ST PLACE WINNER)

- Created an algorithmic tool that integrates with Target's API to recommend groceries based on user-defined nutritional and budget criteria. The application sorts products by a calculated nutrition score, effortlessly guiding users to the healthiest choice within their budget. **All calculated and presented to the user in under two seconds**
- **Tools: Python, Flask, BeautifulSoup, Selenium, RegEx, HTML, CSS, MongoDB, Kaggle Datasets and Data Models**

VIVA LA MIAMI (iOS)

- Created an iOS application using **Swift and SwiftUI that utilized Yelp API** to find fun and engaging activities for those under 21. The API queries through activities in Miami and finds those that are currently popular and are <21 friendly.
- **Tools: Swift, SwiftUI, Yelp API**

DEPRESSION DETECTOR (WEB APP)

- Developed a web app in Python that analyzes large Twitter user data to gauge signs of depression in users. The app utilizes keyword tracking to categorize potential depression levels as 'none,' 'some,' or 'severe,' offering a data-driven approach to mental health monitoring.
- **Tools: Python, Flask, HTML, CSS, Twitter Scraper**

LEADERSHIP

VICE PRESIDENT OF TECHNOLOGY | Google Developer Student Clubs

- Conducting workshops on **JavaScript, Python, Git, HTML, CSS, and open source**, focusing on coding best practices.
- Mentoring participants, enhancing coding skills, problem-solving, and collaborative development for over **90 members**

PRESIDENT | Programming & Engineering Club

- Successfully introduced and led a **VEX robotics program, guiding 30+ members** in the design and construction of competitive robots, enhancing their practical engineering and programming skills. Grew member count by 80% from start to end of my presidency.