

Kha Di Le

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EDUCATION

University of Michigan – Ann Arbor

BS in Computer Science & Statistics

Ann Arbor, MI

Expected May 2026

- Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Calculus 1-3, Linear Algebra, Stats Computation
- Certificates: CodePath Advanced Technical Course

SKILLS

Skills: C++, R, Java, Python, GitHub, Excel, HTML, CSS, JavaScript, React, Machine Learning

Languages: English, Vietnamese

PROJECTS

Github Profiles Website

June 2024 – July 2024

- Implemented dynamic profile cards using React, HTML, and CSS to display comprehensive user information, facilitating quick and easy access to relevant GitHub data
- Leveraged GitHub's Axios API to fetch and manage user profile data, enabling real-time updates of user content, including follower/following count, public repositories, and biographies
- Conducted thorough unit testing and debugging to ensure seamless performance, optimizing loading times and error handling

Network Intrusion Detection System (Michigan Data Science Team)

August 2023 – November 2023

- Developed a cutting-edge Network Intrusion Detection System (NIDS), boosting network security
- Leveraged scikit-learn, TensorFlow, and Keras in Python to construct, train, and fine-tune intricate ML artificial neural networks, reaching intrusion detection rate of 99%
- Optimized and cleansed a raw network dataset comprising over 22,000 intrusions to extract key insights and ensure efficiency
- Collaborated closely with teammates in the Michigan Data Science Club to streamline work and effective communication
- Conducted comprehensive model evaluations using confusion matrices and ROC curves to ensure high precision and recall rates.

SQL Relational Database Clone

November 2023 – December 2023

- Developed a custom program to emulate a basic relational database using a simplified SQL interface
- Created algorithms to support various database commands (CREATE, INSERT, DELETE, PRINT, etc.), ensuring accurate data operations and accurate functionality
- Implemented an indexing mechanism using hash tables and binary search trees for rapid data retrieval, optimizing query performance and reducing search times
- Tested the database system with various edge cases to ensure reliability and scalability under diverse query loads

Instagram Clone

December 2024 – Present

- Developed a full-stack Instagram clone using REST APIs integrated with Flask and React for core functionality
- Implemented REST APIs in Flask to handle user registration, authentication, and data retrieval, ensuring efficient and secure communication between the front-end and back-end
- Leveraged SQL databases to efficiently store and manage user-generated content, including images, user profiles, and posts
- Created infinite scrolling and real-time like and comment system using React.js for scalable and dynamic pages without reloads
- Integrated front-end design with responsive layouts using CSS/HTML to ensure an intuitive user experience across devices

LEADERSHIP

Union of Vietnamese Student Organization Midwest (UVSA-MW)

September 2023 – Present

Committee Staff

- Lead the coordination of over 400 attendees, strategically grouping them into cohesive families while spearheading engaging and transformative events for the VIA-1 conference
- Utilize advanced Microsoft Excel skills to efficiently sort and organize families into groups, ensuring a systematic and well-coordinated family programming experience, with sorting efficiency increasing by 75% from last year
- Facilitate effective communication and collaboration between attendees and family leaders, handling conflicts efficiently and streamlining the conference experience

Pi Alpha Phi Fraternity Incorporated

President, Secretary, Recruitment Chair, Social Chairman

March 2023 – Present

- Organize weekly meetings, fostering a collaborative environment where all fraternity members actively participate in discussions, address concerns, and generate ideas for fraternity improvement
- Manage and create important events, and ensuring all members are well-informed of dates and times, improving event attendance and membership by 30%
- Collaborate with 8+ other campus organizations to co-host events and promote cross-cultural and exchange and connections