Maxwell Shafer

18902 W 99th St. Lenexa KS 66220| maxshafer1@ksu.edu | 913-952-4131

github.com/MaxwellShafer || linkedin.com/in/maxwell-shafer

Education

Kansas State University, Manhattan, KS   Projected graduation: May 2026

Bachelors in Computer Science   - 3.95 GPA

Relevant Work Experience

Kansas State University, *Data & Program Structure Assistant Teacher*   Manhattan, KS
August 2024 – Present

- Elaborate and resolve student questions about algorithms and data structures in class
- Facilitate student help sessions, assisting in project functionality and accuracy
- Collaborate with professor to discuss and develop comprehensive model solutions

Dazl LLC, *Website Design and Quality Assurance*   Lenexa, KS
May 2023 – August 2024

- Constructed a user-story based testing strategy to assist in future iterations of website design
- Developed a site flow diagram to improve website user experience

---

Relevant Coursework:

Software Architecture & Design:
- Collaborated with a team of four students to complete an application highlighting the MVC design pattern
- Refined design using UML diagrams to effectively document the application's structure and interactions
- Utilized Git version control to develop and work asynchronously, while maintaining code integrity

Object Oriented Programing:
- Developed a comprehensive point-of-sale (POS) system for a restaurant, including both the software interface and the underlying database
- Designed and implemented a functional restaurant website with integrated ordering software
- Obtained high proficiency in C#, .NET Framework, and relevant tools including Razor Pages and Windows Forms

Data & Program Structure:
- Implemented versions of important algorithms including Dijkstra's algorithm, quick sorting algorithm
- Designed software to highlight use of data structures such as linked lists, data trees, stacks, and queues

Database Systems & Concepts:
- Optimized SQL queries and database performance through indexing, query analysis, and other best practices.
- Utilized SQL Server Management Studio for data manipulation, retrieval, and reporting

High School 21st Century Engineering Program:
- Took specialized classes focusing on data management through Excel
- Lead a team in an engineering design challenge dividing work and created full documentation

Skills

Language & Tools: C#, C, GitHub, Git, .NET Framework, Java, Python, R, SQL, Excel, xUnit Testing, SSMS, Microsoft Visio,

Soft Skills: Adaptability, Time Management, Collaboration, Communication, Problem-Solving, Technical Writing

Familiar with: Agile Development, HTML, CSS, JavaScript, React, Linux, TensorFlow, ChatGPT, Copilot, Azure, IntelliJ

Involvement

Sigma Chi Fraternity, Kansas State University   Fall 2023

House Manager:
- Managed relationship with Housing Board insuring effective communication and damage reporting
- Organized 60 members to ensure house maintenance while flexibly repairing housing issues
- Established a communicative relationship with supplier and accurately managed the house inventory