**Maxwell Shafer**

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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