Charles Wilson

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Technical Skills

Languages: Python, Java, C#, SQL, JavaScript, C, R, HTML5, CSS

Developer Tools: .NET, AWS, Power BI, Git, Firebase, MongoDB, PostgreSQL

Libraries/Frameworks: ReactJS, VueJS, NodeJS, Redux, TailwindCSS, Express, TensorFlow, Keras

Education

University of Wisconsin - Whitewater **Sep 2024 – Dec 2025**
M.S. Computer Science *Whitewater, WI*

Hamline University / Macalester College **Jan 2021 – Aug 2024**
B.S. Computer Science — B.S. Data Science *St. Paul, MN*

- Magna Cum Laude — **GPA: 3.85**

Work Experience

Ameriprise Financial **May 2023 – Aug 2023**
Software Engineer Intern *Minneapolis, MN*

- Created a front-end application for a 2-year project with React.JS and connected it to Amazon Web Services (AWS)
- Collaborated with cross-functional teams to identify and implement additional features, resulting in a 20% increase in overall functionality of the application.
- Presented final project to 50+ software engineers, executives, and the CIO

Hamline University **Sep 2023 – Dec 2023**
Programming Tutor *St. Paul, MN*

- Provided personalized programming instruction to students of varying skill levels, improving their understanding of coding concepts and achieving a 100% satisfaction rate in student feedback.
- Developed and delivered customized lesson plans on topics such as algorithms and debugging, fostering problem-solving skills and practical coding proficiency.

Projects

BudgetBuddy | *Source Code* **C# | .NET | ReactJS | PostgreSQL**

- Built a full-stack personal finance web app using React, Redux, .NET Core 9.0, and PostgreSQL to help users track and analyze expenses in real time.
- Integrated the Plaid API for secure bank account connectivity and automated expense categorization, paired with dynamic charts using Recharts.
- Implemented secure user authentication, a responsive UI, and a RESTful API backend with Entity Framework Core to support scalable financial data operations.

Movie Swiper | *Website* | *Source Code* **MERN | APIs | Tailwind**

- Built a full-stack movie-matching web app using the MERN stack and Tailwind CSS, integrating the TMDB API to fetch movie data. Users can sign in, join a session, and swipe on movies with real-time interactions.
- Implemented a matchmaking system where users in the same session get notified when they both like the same movie, enhancing the interactive experience with dynamic updates and session-based matching.

Pathfinding Visualizer | *Website* | *Source Code* **ReactJS | Bootstrap | Algorithms**

- Built an interactive pathfinding visualizer with React.js, implementing Dijkstra's and A* algorithms for real-time shortest-path calculations
- Designed dynamic grid features with user-friendly controls, enabling obstacle placement and visual animations to enhance algorithm comprehension

Leadership

Football Captain (Hamline University) **Aug 2022 – Nov 2023**

- Earned First-Team Academic All-American honors by the CSC (2023), First-Team MIAC All-Conference recognition (2022, 2023), and was a Campbell Trophy Semi-Finalist (2023)