Jack Miller

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mjack6182.github.io/Personal-Portfolio/

EDUCATION

The University of Wisconsin-Parkside | Kenosha,WI   **Expected Graduation: May 2026**

B.S. in Computer Science | GPA: 3.3 (4.0 over last 4 semesters)

Certificates: Data Science, Web Development, Cyber Security

Relevant Courses: Data Structures and Algorithms, Artificial Intelligence, and Database Management.

PROFESSIONAL EXPERIENCE

App Factory | University of Wisconsin-Parkside | Kenosha, WI   **March 2025 - Present**

- Design, Develop, and deploy software solutions for clients using modern development frameworks and technologies.
- Engaged in team-based development using version control, and collaborative tools to ensure efficient project delivery and maintainable codebases.
- Worked with multiple development tools such as Swift, Flutter, and many more.

Shift Lead | Walgreens | Kenosha, WI   **October 2024 - Present**

- Oversaw store operations in management's absence, cash management, customer transactions, and service delivery.

Manager | Jimmy Johns | Kenosha, WI   **August 2020 - September 2024**

PROJECTS

WGTD 91.1 Radio Streaming App – Flutter Developer, App Factory

- Independently developed the official WGTD radio app from the ground up using Flutter, delivering a modern cross-platform solution for iOS and Android.
- Implemented live audio streaming, playback controls, and responsive UI components to ensure a reliable, user-friendly listening experience.
- Successfully completed and deployed the project individually within the App Factory, demonstrating full ownership of design, development, and delivery.

Airport Distance Calculator | Java   **March 2025**

- Engineered a Java-based graph traversal system leveraging Dijkstra's algorithm to calculate optimal flight paths and distances between airports, integrating real-world geographic computations using the Haversine formula.
- Designed a modular, object-oriented architecture with custom data structures (weighted graphs, priority queues) to efficiently model and query complex location networks.
- Built an interactive command-line application demonstrating advanced algorithmic problem-solving, user input handling, and robust exception management.

Volga | HTML, CSS, JavaScript, PHP

- Developed a responsive online book marketplace with a modern, user-friendly interface inspired by leading e-commerce platforms, utilizing HTML, CSS, JavaScript, and jQuery.
- Built a multi-step user registration system with dynamic client-side validation, delivering real-time input feedback and contextual guidance to enhance user experience.
- Designed and integrated a SQL-backed database with PHP, enabling full search functionality, genre-based organization, and shopping cart features for seamless user interaction.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, HTML/CSS, Swift, SQL,Flutter.

Frameworks & Technologies: React.js, and jQuery.

Tools and Platforms: Microsoft Office, Git/Github.   **Operating Systems:** Windows 10/11 and MacOS.

ACHIEVEMENTS & EXTRACURRICULARS

Joseph Johnson Scholar, Secretary – **Computer Club (2024–Present)**