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JOSHUA JOHNSON

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EDUCATION

Grand Valley State University **May 2026**
- **B.S. in Computer Science with a minor in Mathematics**
  Coursework: Data Structures and Algorithms, IOS App Development, Discrete Structures, Linear Algebra, Computer Organization

PROJECTS

Self-Moving Chess Game (link to video)

- Created a chess set that processes moves in real-time and physically moves pieces against the player.
- Built an 8x8 grid of magnet detectors connected to 8 daisy-chained shift registers.
- Used C++ to bit-shift binary switch data to update an 8-byte variable describing the current board state.
- Compared board states to detect moves and control piece movements seamlessly.
- Designed this project out of a passion for chess and to strengthen hardware and software integration skills.

Task Manager

- Developed a local task management application using .NET and SQLite.
- Implemented CRUD operations for tasks, enabling users to create, read, update, and delete tasks.
- Designed a user-friendly windows interface using WinForms/WPF.
- Created a SQLite database, writing optimized C# methods to handle database interactions and error handling.
- Built this project to improve homework management skills while gaining application development skills.

EMPLOYMENT

IT Technician **Grand Valley State University** **August 2023 – Current**

- Diagnosed and resolved software and hardware issues, ensuring minimal downtime and efficient operation.
- Assisted in the setup and configuration of audio-visual equipment and networking hardware for campus events, supporting smooth and successful execution.
- Collaborated with the IT team to optimize system performance and streamline technical processes.

Freelance Wedding Photographer **Joshua's Photography (link to website)** **August 2024 – Current**

- Captured and edited stunning photos that narrate the couple's love story.
- Collaborated with clients to capture special moments in the way they envisioned.
- Managed all aspects, including pre-event consultations, shooting, and post-production editing.

SKILLS

Languages
- Python, C, C++, C#, Bash, Javascript, Swift, SQL

Frameworks and Tools
- .NET, WinForms, WPF, SQLite, Git, Xcode, NuGet

Databases
- MySQL, SQLite

INTERESTS
- Soccer, Legos, Gardening, Sewing, Robotics, Woodworking, Photography