Michael Genson

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EDUCATION

University of Wisconsin – Madison   Madison, WI
B.S. in Computer Science, Certificate in Game Design   *Aug. 2017 – Aug. 2023*

TECHNICAL PROJECTS

Parallel Merge Sort   *April 2023*
C, University Project
- Using threads wrote a parallelized implementation of Merge Sort
- Applied concurrency knowledge to properly sort large sets of 100-byte records in parallel
- Made use of multi-core processor abilities and concurrency theory for sorting performance

Stride Scheduling for xv6 Operating System   *March 2023*
C, xv6, University Project
- Worked in a large unfamiliar code base to improve the OS process scheduler
- Re-worked an entire part of the OS from Round Robin to Lottery Scheduling for fairness
- Utilized debugging and testing skills for proper implementation

StarShip Delivery Service   *April 2022*
Java, JavaFX, University Project
- Developed an interactable program that calculates the shortest path and estimated delivery time for a StarShip Delivery robot around the UW-Madison campus
- Applied knowledge about data structures, clean coding, and Dijkstra's shortest path algorithm
- Programmed back-end logic integrating structures defined by other team members
- Navigated conflict by utilizing essential soft skills to resolve ongoing team member disputes

AstroScape   *July 2022 – Aug. 2022*
C#, Unity, Passion Project
- Created a 2D, Top-Down, Time Survival Game with player dash abilities to enhance gameplay
- Applied Unity's Event System and Scriptable Objects for clean and efficient programming
- Explored my passion for programming in an entirely new setting and application

EXPERIENCE

Assistant Food Service Leader   *Dec. 2019 – June 2022*
Kwik Trip   *Middleton, WI*
- Enhanced the store in many areas, including supporting front end demands and customer needs
- Utilized communication skills to effectively interact with customers and team members
- Managed and organized kitchen orders, including meeting sales goals on special items

Hardware Support Specialist   *May 2017 – Aug. 2017*
Menards   *Madison, WI*
- Provided exceptional customer assistance with advice, item location, and orders
- Stocked and organized freight for ideal customer access

SKILLS & INTERESTS

Languages: C/C#/C++, Java, ASM, Bash, JavaScript, HTML/CSS, Python, SQL
Frameworks: .NET, Junit, JavaFX, Node.js, OpenGL, webGL, Unity, Unreal Engine
Developer Tools: GitHub, Visual Studio Code, Vim, Emacs, GDB, Google Cloud Platform
Top Courses: Algorithms, Operating Systems, Compilers, Data Structures, and Parallel & Throughput-Opt Pro
Interests: Problem Solving, Technology, Sustainable Living and Hiking