Michael Simpson

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Education

Clarkson University - Potsdam, NY   **Expected December 2022**
- Bachelor's in Computer Science and Information Technology
- Minors in Digital Art and Psychology

New Paltz Central High School – New Paltz, NY   **Graduated May 2018**

Relevant Experience

Basic shell in C   **February 2021**
- Implemented commands: exit, echo, cd, ls, pwd, jobs, kill, help, clear
- Added history functionality to save previous commands

"UserFS" to model a basic file system in C   **March 2021**
- Created virtual disk that included basic commands for adding, viewing, and removing files
- Modeled storage and commands to not corrupt on crash

Threading deadlock puzzles in C   **April 2021**
- Designed deadlock and solution versions of dining philosophers and baboon crossing puzzles
- Provided output to show progress and success/failure

Open AI gym cart pole in Python   **April 2021**
- Implemented Q-learning and prioritized sweeping reinforcement learning algorithms

TCP client and server for real-time messaging in Python   **October 2020**
- Supported user-to-user and user-to-group messaging
- Based program on RFC 1459 (Internet Relay Chat)

"FileViewer" to replicate data management in C++   **March 2019**
- Created option to view and edit imported text
- Enabled adjustable window size

"Clype" instant messenger and file sharing program in Java   **October 2019**
- Implemented multi-threaded functionality to allow multiple client-server connections
- Included audio/image sharing, chat box, and friend's tab

TicTacToe game in Java   **April 2018**
- Created multiple modes including player versus player, and player versus AI
- Designed command line graphics

Technical Skills

Languages: C++, C, C#, Python, Java, JavaScript, HTML, CSS, X-86 Assembly, Haskell

Software and OS: VS Code, PyCharm, Git, Docker, Unity, Blender, Unix, Xcode, Linux, Windows, MacOS

Work Experience

Gaylord National Resort & Convention Center - Fort Washington, MD   **Summer 2021**
Bar-back
- Stocked and maintained 4 person bar serving 350 customers. Catered to clients' needs during events.

Mohonk Mountain House - New Paltz, NY   **Summer 2017 – 2019**
Granary Buffet Server
- Helped direct co-workers to prepare and maintain buffet. Assisted guests and responded to needs.

Yogi Bear Campground - Gardiner, NY   **Summer 2015 – 2016**
Certified Lifeguard, Recreation Staff
- Coordinated and supported events. Entertained children. Maintained campground.

School Athletics

HS Varsity Lacrosse (2015 - 2018), Team Captain (2018)

HS Junior Varsity Football (2015) | HS Varsity Nordic Ski (2016)

Athletic Honors and Awards

Varsity letter in Lacrosse (2015 - 2018) and Nordic Skiing (2016)