49 Market Street, Apt. 2

Michael Simpson

simpsom@clarkson.edu

Potsdam NY, 13676

(845) 559-3711

Education

Clarkson University: Potsdam, NY - Bachelor of Science   **Graduating December 2022**
- Major in Computer Science and Information Technology
- Minors in Digital Art and Psychology

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

Technical Skills

Languages & Frameworks: C++, C, C#, Python, Java, Angular, TypeScript, .NET, SQL, HTML, CSS
Software: VS Code, Terminal, Azure suite, Git, Docker, Slack, Teams, Office suite, Vim, Tmux
OS: Windows, MacOS, Linux

Work Experience

Medico Physicians, LLC: Phoenix, AZ   **June 2022 - Present**
Software Engineering Intern (Remote)
- Develop and maintain medical website for 8 offices and 5,000+ patients
- Full-stack development using Angular, .NET, REST API's, Azure suite and SQL databases
- Implement website features that maintain patient records, procedures and doctors' notes, schedule appointments, upload scans, order medications and export patient data
- Comply with HIPAA standards throughout development

Gaylord National Resort & Convention Center: Fort Washington, MD - *Bar-back*   **Summer 2021**
- Stocked and maintained 40 ft. bar serving 350 customers and catered to clients' needs

Mohonk Mountain House: New Paltz, NY - *Granary Buffet Server*   **Summers 2017 - 2019**
- Directed co-workers to prepare and maintain buffet, assisted guests with special requests

Relevant Experience

Spell checker in Python   **April 2022**
- Created statistical model that performed spell correction and word prediction using numerous public data sets - correct word in top 5 predictions >80%

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

Model of 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

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 on RFC 1459

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

School Athletics

HS Varsity Lacrosse (2015 - 2018), Team Captain (2018)
HS Junior Varsity Football (2015) | HS Varsity Nordic Ski (2016)

Honors and Awards

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