Zachary Perlmutter

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Education

Master of Science in Computer Science *Dec 2021*
University of Massachusetts, Lowell, MA
Concentration in Artificial Intelligence and Machine Learning

Bachelor of Science: Computer Science *May 2020*
University of Massachusetts, Lowell, MA

Qualifications/ Skills

Programming Languages: C/C++, Assembly, Java, Python

Software/Version Control: GitHub, MS Office, Glpi, Replicon, Jira, Git, Slack, Active Directory, OpenCV

Operating Systems: Unix/Linux, Mac OS/iOS, Windows/Windows Server 2012

Experience

Astronics Test Systems Diagnosys / IT Helpdesk Intern (Westford, MA) June 2019 – Present

- Maintaining servers, domain, and AD for users
- Managing timesheets and project tasks for 90+ users
- Diagnosing hardware/software issues measured by Jira

Playtlist, Inc. / Co-founder, Chief Technology Officer (Lowell, MA) Oct 2019 – Present

- Creating a health startup out of Umass Lowell by designing a mobile app with fellow students
- In charge of the app design and front-end and back-end development
- Creating a business plan and managing tasks for the team

Red Heat Tavern / Server (Bedford, MA) Dec 2015 – Present

- Providing excellent service to guests and families while developing strong communication from waiting on over 8 tables at one time
- Demonstrating great time management between taking orders, serving food and beverages, cleaning tables, and other side work

Projects

Guitar Hero March 2019

- Implemented a guitar string class that generates randomly signed 16-bit integers to simulate the sound of white noise and then mapped specific keys to different samples in the ring buffer
- Created a private member variable that stores the address for each ring buffer so I could change the values in each ring buffer for different strings
- I learned how to take sound data and convert it into sound through the SFML libraries

Airport Simulation May 2019

- Created a program that handles processes and threads when run concurrently
- Implemented mutex locks to handle which processes can enter a critical region at a certain time
- Condition variables were used with the mutex locks to check different states

Honors and Awards

Deans List

- 2020 Spring
- 2019 Fall
- 2019 Spring

Phi Theta Kappa National Honors Society Oct 2016

- Accepted for great academic GPA for two-year colleges

Comcast Leaders and Achievers Scholarship May 2015

- Received for outstanding academic achievement and extensive community service