David Lyko

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EDUCATION

Binghamton University, SUNY | Watson College of Engineering and Applied Science
Bachelor of Science in Computer Science, Minor in Mathematics   **Expected 2023**
Cumulative GPA: 3.66/4.00 | Dean's List: Fall 2020 - Present

TECHNICAL SKILLS

Languages: C, C++, Java, Python, HTML, CSS, JavaScript, X86 Assembly
Tools and OS: VS code, Eclipse, IDLE, Emacs, Git, JUnit Testing, Flask, Logisim, basic SQLite, Linux, Windows
Relevant CS Courses: Advanced Algorithms, Data Structures and Algorithms, Architecture from Programmer's Perspective, Programming with Objects and Data Structures, Programming and Hardware Fundamentals, Ethical, Social and Global Issues in Computing
Relevant Mathematics Courses: Calculus 1, Calculus 2, Linear Algebra, Number Systems/ Discrete Mathematics

RELEVANT EXPERIENCE

Binghamton University Information Technology, Residential Computing Consultant | Binghamton, NY   **August 2021-Present**
- Provide technical support to students, troubleshoot hardware and software, assist students with printers, troubleshoot network errors, and provide other IT support services
- Manage IT desk at library, which includes fixing printer jams, aiding students with using University printers, and troubleshooting other printer or computer issues

Machine Learning and Human Robot Interaction, Undergraduate Researcher | Binghamton, NY   **August 2020-December 2021**
- Developed a robotic arm capable of playing a simplified version of Mahjong
- Used Python (Keras, TensorFlow), Answer Set Programming, CoppeliaSim Robotics
- Summarized code, design, and implementation in a 7 page research report, and presented poster at poster session to students and faculty

PROJECT EXPERIENCE

Ski Resort Recommending Web Application, Collaborative Project   **December 2021-January 2022**
- Designed and developed a web application that recommends ski resorts based on a score which takes into account current snow/ weather conditions, mountain statistics, lift ticket prices and proximity from user's location
- Utilized HTML, CSS, JavaScript, flask web framework in Python, beautiful soup library in Python for webscrping, various apis

Portfolio Website, Personal Project   **November 2021**
- Utilized HTML and CSS to develop a professional portfolio website, hosted the website using GitHub Pages, and managed version control through GitHub

Employee Scheduling Application, Personal Project   **May 2021-August 2021**
- Designed and developed a program which generates a schedule for 23 employees at the Thomas P. Morahan Waterfront Park
- Utilized object oriented programming techniques, algorithms, text file reading/ writing, exception handling, arraylists, and a SWING GUI, written entirely in Java

Binghamton University, Java Co-Programmer   **September 2020-December 2020**
- Created an assembler which assembles an assembly file, and displays output and memory content in a Swing GUI
- Managed version control through GitHub, employed JUnit testing to evaluate source code, and used JavaDocs to document code

LEADERSHIP EXPERIENCE

Binghamton University, First Year Research Immersion Undergraduate Peer Mentor | Binghamton, NY   **August 2021-Present**
- Guide a team of five students in developing a research proposal outlining a solution to a real world problem
- Assist professor in weekly lectures, organize team building and learning activities, teach students research techniques, keep attendance records, and guide researchers in weekly team meetings

WORK EXPERIENCE

Thomas P. Morahan Waterfront Park, Senior Waterfront Lifeguard | Greenwood Lake, NY   **May 2021-September 2021**
Waterfront Lifeguard | Thomas P. Morahan Waterfront Park, Greenwood Lake, NY   **June 2019-May 2021**