# Josef Schindler

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## EDUCATION

**Binghamton University, SUNY | Thomas J. Watson College of Engineering and Applied Science**
*Bachelor of Science in Computer Science*                                               *Expected May 2024*
**Cumulative GPA:** 4.00/4.00 | **Dean's List:** Fall 2020 - Present

## TECHINCAL SKILLS

**Languages & Libraries:** Python, Java, C, C++, x86-Assembly, Pygame, Keras, Numpy, Pandas, Openpyxl
**Software & OS:** MS Suite, G-Suite, Windows, iOS, Linux/Unix, Logisim, Eclipse, xv6, Git
**Relevant Coursework:** Data Structure and Algorithms, Operating Systems, Object-Oriented Programming, Design Patterns

## WORK EXPERIENCE

**Assessment Review Consultants**                                                        **Garden City, NY**
*Database Engineer Intern*                                                               *April 2020 - Present*
- Update and monitor data for thousands of clients and prepare financial data points for use in billing statements
- Implemented automatic data collection in Python using Pandas library information to keep main database updated

**Department of Computer Science**                                                       **Binghamton, NY**
*Course Assistant for Data Structures and Algorithms, Intro to Python*                   *August 2021 - December 2022*
- Prepared test-case files using bash scripts to help over 90 students automate testing coding assignments in C++
- Assisted the Professor with making Python grading script to automatically grade assignments and upload results

**Lifetime Athletics**                                                                   **Garden City, NY**
*Aquatics Supervisor and Lifeguard*                                                      *March 2018 - August 2021*
- Directed a team of nine lifeguards to ensure safety of over 300 members within facility including two pool decks
- Searched large bodies of water for unsafe activities and provide first-aid care at a moment's notice

## PROJECT EXPERIENCE

**Efficient Tree Data Storage**                                                          **Binghamton, NY**
*Independent Programmer*                                                                 *December 2022*
- Created balanced AVL tree in C++ to compare insertion and search functionality with BST on various inputs
- Generated and enriched testing datasets by developing bash script in Python using Numpy library
- Implemented data visualization to demonstrate efficiency of AVL data structure using Matplotlib

**College Mealplan Money Calculator**                                                    **West Hempstead, NY**
*Independent Developer*                                                                  *February 2022*
- Developed program in Python using Selenium and Beautifulsoup libraries to webscrape student's mealplan information to allow students to budget their mealplan each semester and distributed to over 10 students

**First-Year Research Immersion Program**                                                **Binghamton, NY**
*Image Acoustic Signal Analysis Stream (IASA) Researcher*                                *August 2020 - December 2021*
- Created neural network in Python using Keras and Numpy that uses machine learning and data from thousands of videos to generate a facial recognition system capable of distinguishing an authentic face from a manipulated face
- Collaborated in a six-person team to examine algorithms using Convolutional Neural Networks (CNNs) and Support Vector Machines (SVMs) to determine the best methods for detecting deepfake videos

**Dungeon Brawler Top-Down Python Game**                                                 **Binghamton, NY**
*Backend Developer*                                                                      *December 2020*
- Constructed two-dimensional game in Python using Pygame with animations and unique, customizeable levels
- Communicated in 3 person team using Github to manage and combine front-end and back-end elements of game

## LEADERSHIP AND INVOLVMENT

**Association for Computer Machinery**                                                    **Binghamton, NY**
*Vice President*                                                                         *December 2021 – Present*
- Present workshops to over 40 people about data structures and algorithms with practice technical problems
- Synthesize technical coding problems using Hackerrank for semesterly coding competitions

**HackBU**                                                                               **Binghamton, NY**
*Vice President of Logistics*                                                            *December 2021 – Present*
- Managed $15,000 budget by tracking expenditures and allocating funds appropriately to ensure food, sponsors, apparel, transportation and other costs had proper funding for annual Hackathon with over 300 attendees