Jennifer Seibert

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Bachelor of Science in Computer Science **Expected May 2023**
Overall GPA: 3.82 / 4.00 | Dean's List: Fall 2019 - Present

TECHNICAL SKILLS AND COURSES

Languages: Java, Python, C++, C, Objective-C, HTML/CSS
Software and OS: XCode, Visual Studio Code, Eclipse, Git, LaTeX, Logisim, IDLE, Linux, macOS, JUnit testing
Related Courses: Data Structures & Algorithms (Currently), Programming with Objects & Data Structures, Programming and Hardware Fundamentals

RESEARCH EXPERIENCE

Binghamton University, Research Assistant - Professor Patrick Madden | Binghamton, NY **March 2020 - Present**
- Devising methods for an open-source C-wrapper library to generate diagrams in Adobe's PostScript language
- Review and edit research papers pertaining to graph partitioning and VLSI design prior to submitting to conferences

Binghamton University, Student Researcher, First-year Research Immersion | Binghamton, NY **August 2019 - Present**
- Developing a program using neural network in Python models to generate human motion synthesis of dance
- Engage with researcher advisors and teammates to complete and delegate team-oriented assignments while building presenting, communication, and time management skills
- Write individual and team technical reports and research proposals using LaTeX after extensive literature review on related work and previous models
- Presented a poster talk on the research at the annual poster session to peers and faculty (December 2019)

PROJECT EXPERIENCE

Binghamton University, Programming with Objects Course | Binghamton, NY **May 2020**
- Implemented Pippin CPU Simulator in Java to take in and assemble an assembly file while checking for errors and display memory content in GUI
- Managed project using GitHub, met all specifications using JUnit testing, and documented code using JavaDocs

Binghamton University, First-year Research Immersion | Binghamton, NY **February 2020 - May 2020**
- Developed neural network models in Python using Keras and Open AI Gym to solve CartPole and MountainCar Problems
- Simulated hunter and prey environment with turtle-bots utilizing the Robot Operating System (ROS) in Python
- Created neural network model in Python using Keras to return grayscale images when giving an image with RGB pixels

LEADERSHIP AND OTHER EXPERIENCE

Binghamton University, Course Assistant | Binghamton, NY **August 2020 - Present**
- Oversee labs for an Introduction to Programming in Python course by answering student questions and holding office hours
- Grade the labs and assignments of 24 students while providing insightful feedback on how to improve

Girls Who Code at Binghamton, Lead Python Teaching Instructor | Binghamton, NY **September 2020 - Present**
- Create presentations and coding activities for weekly Python lessons being taught to twenty high school girls via Zoom
- Facilitate meetings with teaching instructors to ensure quality teaching and keep students engaged over an online platform

Girls Who Code at Binghamton, Java Teaching Instructor | Binghamton, NY **January 2020 - August 2020**
- Teach and mentor six high school girls to learn how to code in Java by teaching lessons and offering individual help
- Coordinate a transition to a virtual Fall 2020 program via internet marketing techniques and hosting virtual trial classes

University Scholars Program, Student Mentor | Binghamton, NY **May 2020 - Present**
- Mentor eight first-year students through virtual programming and communication to devise a fulfilling first-year experience

Alpha Omega Epsilon, Psi Chapter, Corresponding Secretary | Binghamton, NY **May 2020 - Present**
- Update alumnae every month with a newsletter detailing the professional sorority's events and new members

HomeGoods, Sales Associate | Patchogue, NY **October 2018 - August 2020 (Seasonally)**
- Arranged new and existing merchandise with proper signage and designed appealing displays to drive customer purchases