

## EDUCATION

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**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**  
*Bachelor of Science in Computer Science* **Expected August 2024**  
**Cumulative GPA:** 3.96 /4.00 | **NYS STEM Scholarship** | **Dean's List:** Fall 2021 – Fall 2023  
**Relevant Coursework:** Programming with Objects & Data Structures, Design & Analysis of Algorithms, Operating Systems, Programming Languages, High-Performance Computing, Database Systems, Intro to Computer Security

## TECHNICAL SKILLS

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**Languages:** C++, C, Java, Python, Visual Basic .NET, X-86 Assembly, Scratch, CUDA Toolkit, Processing  
**Software and OS:** Linux Terminal, Vim, Microsoft Visual Studio, Jupyter Notebook, Eclipse IDE, Windows 10, Linux, Windows Subsystem for Linux, Oracle VM VirtualBox, Google Workspace, MS Office Suite

## PROFESSIONAL EXPERIENCE

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**Binghamton University, Computer Science Dept., Course Assistant** | Binghamton, NY **August 2023 – December 2023**

- Administered and facilitated an activity section for Architecture from a Programmer's Perspective in collaboration with a Teaching Assistant
- Guided lab activity by answering students' questions; sharpened time-management, science communication, and troubleshooting abilities
- Engineered assignment solutions, fixing errors and helping to implement a reference library for a class of over 80 students

## PROJECT EXPERIENCE

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**Sliding Puzzle, Game Developer** | Massapequa, NY **May 2024 – June 2024**

- Developed an interactive sliding puzzle game coded in Java using the Processing sketchbook for a personal project
- Implemented a user interface, user input, detection/reshuffling of impossible starting configurations, high score saving/loading, color schemes, clickable buttons, and error handling in 1,200 lines of code and 50 GitHub commits
- Published four release versions, detailing installation instructions and troubleshooting tips for Windows, Linux and macOS

**HackBU Hackathon, Software Engineer** | Binghamton, NY **February 2023**

- Competed in the annual HackBU Hackathon, collaborating with another programmer to design a Java program that provides weather forecasts along a driving route
- Executed OpenWeather API calls to make temperature and weather forecasts in three-hour intervals for a list of evenly spaced coordinates along the route, supplied by my teammate's code and Google Maps API
- Won "Best Building a Better Future Hack Sponsored by Raymond Corporation" in competition against 40 other teams

**Final Research Paper, AI Researcher** | Binghamton, NY **September 2022 – December 2022**

- Conducted research on GPT-3 and MT-NLG, two monolithic natural language processors built on the transformer architecture
- Delineated the technical details of the pretraining and fine-tuning processes while also examining the social implications of implicit bias
- Concluded that, although MT-NLG outperforms GPT-3 on benchmark tests, both language models must be adequately fine-tuned to counteract biased responses

**ACM Coding Competition, Computer Programmer** | Binghamton, NY **March 2022**

- Collaborated and traded solution ideas with other programmers to solve puzzles, each with a time limit of several minutes
- Applied algorithms knowledge in C and Java to solve HackerRank problems quickly and efficiently
- Ranked in the top 10 and achieved perfect submissions for all attempted challenges, solidifying programming expertise

## WORK EXPERIENCE

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**Stop & Shop, Frozen Food Clerk** | Amityville, NY **May 2021 - August 2021**

- Developed valuable cooperative and professional skills while unpacking and relocating frozen food products
- Acquired crucial communication skills and self-reliance by reporting to a supervisor, following safety protocol and managing deadlines
- Directed customers to desired aisles during the remodeling process and answered questions about prices, product locations, and store promotions, honing my efficient communication skills