# Azan Nazar

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## EDUCATION

**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**
*Master of Science in Computer Science (AI Track)* *May 2025*
*Bachelor of Science in Computer Science* *May 2024*
**Cumulative Graduate GPA:** 3.54/4.00 | Dean's List: Spring 2023 - Spring 2025
**Relevant Coursework**: Intro to AI, Intelligent Robotics, Machine Learning, Human-Computer Interaction, Computer Networks, Data Structures & Alg, Prob with Stat Methods, Operating Systems, Design Patterns, Systems Programming

## TECHNICAL SKILLS

**Programming Languages**: Python, C++, Java, C, SQL, R, JavaScript, Go, Rust, X86 Assembly, Prolog, Haskell
**Software:** VS Code, Linux, Git, CI/CD, HTML, CSS, Google Workspace, Microsoft Office, TCP/IP, Figma, ROS, Ubuntu

## PROFESSIONAL EXPERIENCE

**Binghamton University,** *Smart Health Research Assistant* | Vestal, NY *August 2024 - Present*
- Co-author a gesture recognition and computer vision survey, identifying trends in HCI, accessibility, sensor fusion and adaptive learning for gesture classification, sequence modeling, and generative motion synthesis
- Evaluate LLM architectures (CNN, GCN, GAN, Diffusion Models, Transformers) for multimodal gesture detection
- Collaborate with academic faculty to design training frameworks in AR/VR with computer vision libraries (OpenCV)
- Complete journal publication in LaTeX for research contributions for CHI 2025 Yokohama, Japan ACM conference

## PROJECT EXPERIENCE

**CRNN Computer Vision App**, *Android & AI Developer* *September 2024 - February 2025*
- Developed Android application (Java, Android Studio) for accurate word inference using trained neural networks
- Engineered CRNN models (PyTorch/TensorFlow) for robust word sequence extraction/recognition via OpenCV
- Integrated CTC loss functions and GRU/LSTM architectures for segmentation-free sequential data recognition
- Refined pre-trained models for video-based inference recognition showcasing 20ms latency and high accuracy

**PRM vs RRT Robotic Simulation,** *Python Programmer* *January 2025 - May 2025*
- Designed and deployed custom PRM/RRT algorithms in PyBullet/Gazebo integrated with ROS Noetic/Ubuntu 20.04
- Ran 1,000+ simulations evaluating path smoothness and runtime using Python scripting via Linux command line
- Validated algorithms on real-life TurtleBot3 with results showing PRM's path quality vs. RRT's faster planning time

**Internet Relay Chat**, *C++ Programmer* *March 2024 - May 2024*
- Implemented a multithreaded Internet Relay Chat system with secure server-to-server communication using C++ STL
- Processed authenticated clients via central IRC with synchronized TCP connections for message parsing and routing
- Tested multiple concurrent users communicating across multiple IPs with minimal latency

**Analyzing Climate Patterns using IOT Sensors**, *Python Programmer* *August 2023 - December 2023*
- Cooperated in a cross-functional team of four with rigorous project progress reviews for IoT-related research
- Employed Raspberry Pi 4s to collect pollutant-related climate data and applied regression models for analysis
- Presented detailed climate analysis of local area surrounding Binghamton University to faculty and professionals

## HONORS AND VOLUNTEERING EXPERIENCE

**ISACA Cybersecurity Case Competition Winner,** *CISO Strategic Lead* *October 2024 - May 2025*
- Developed 3-year cybersecurity strategy for CyberArk addressing AI threats, hybrid cloud risks, and zero-day exploits
- Won 1st of 32 national teams in debate judged by ISACA New York Metropolitan Chapter and awarded $2,750 grant

**NYU Product Case Competition Finalist**, *AI/AR Analyst - Competition Participant* *April 2025*
- Proposed Snapchat AR and Slack AI productivity tools in national competition representing Binghamton University
- Awarded honorable mention among top-tier national competitors; judged by tech leaders (IBM, Microsoft, Google)

**EY TechX Case Finalist**, *AI Analyst- Competition Participant* *September 2024 - November 2024*
- Investigated solution implementations using AI to improve Starbucks process inefficiencies, value realization and ROI
- Delivered strategic roadmap to maintain "third place" status to EY senior consultants and executives at NY HQ