

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)

August 2024 - May 2025

Bachelor of Science in Computer Science

August 2021 - May 2024

Cumulative Graduate GPA: 3.54/4.00

Relevant Coursework: Intro to AI, Intelligent Robotics, Machine Learning, HCI, Computer Networks, Data Structures & Alg, Prob with Stat Methods, Operating Systems, Software & Eng. Project Mgmt, Systems Programming, Prog Lang

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, C, SQL, R, JavaScript, Go, X86 Assembly

Frameworks & Tools: PyTorch, TensorFlow, ROS, OpenCV, Git, CI/CD

Software: VS Code, Android Studio, LaTeX, HTML/CSS, TCP/IP, Figma, Microsoft Office Suite, Google Workspace

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, sensor fusion and adaptive learning for gesture classification, sequence modeling, and generative motion synthesis for AI driven optimization
- 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 ongoing research journal contributions for CHI 2025 Yokohama ACM conference in LaTeX

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 with optimal 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 thousands of 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

- Analyzed local climate patterns around Vestal, NY using IoT sensors (Raspberry Pi) and Python regression models
- Presented findings to faculty and industry professionals, contributing to IoT research advancements

HONORS AND VOLUNTEERING EXPERIENCE

ISACA Cybersecurity Case Competition Winner, CISO Strategic Lead

October 2024 - May 2025

- Developed cybersecurity strategy with NIST framework for addressing AI threats, cloud risks, and zero-day exploits
- Won 1st of 32 national teams in debate judged by ISACA New York Metropolitan Chapter and awarded \$3,000 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