

Arman Gevorgyan

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EDUCATION

Worcester Polytechnic Institute (WPI) - Worcester, MA

May 2026

B.S. in Computer Science (Concentration in Cyber Security) / Minor in Data Science

GPA: 3.67/4.0

Relevant Coursework: Algorithms, Operating Systems, Database Systems, Object-Oriented Design, Artificial Intelligence, Systems Programming, Machine Learning, Tools and Techniques in Computer Network Security, Advanced Computer Networks

SKILLS

- **Programming Languages:** C, C++, Python, Typescript, Java, PostgreSQL, MATLAB, MongoDB, R. Bash
- **Development:** Git, Docker, Figma, Wireshark, AWS CLI, Azure, WebStorm, Adobe Premiere
- **Frameworks:** Pytorch, Pandas, React, Express, Tailwind
- **Certifications:** Google Cybersecurity Certificate, CompTIA Security+ (By Dec 2025), CompTIA Network+ (By May 2026),

PROJECTS

Ensemble-Based Smile Detection, WPI

Jan 2025 – Mar 2025

- Implemented a machine learning model to classify grayscale facial images as smiling or not using binary pixel intensity comparisons as features.
- Boosted model accuracy to 88% (vs. the 80% baseline) by combining selected features in an ensemble approach.
- Used Matplotlib to visualize selected features on test images for better interpretability.
- Applied vectorized operations for efficient handling of large datasets.

Smart Supply Chain (IQP), Copenhagen, Denmark

Jan 2025 – May 2025

- Collaborated with Copenhagen-based startup EVEWAVE to improve EVE1, a reusable IoT-integrated smart pallet aimed at reducing plastic waste and improving logistics transparency.
- Proposed website UX and sensor integration improvements, reducing item securing time by 12%.
- Delivered actionable recommendations on user experience, data visualization, and physical ergonomics to align with EU sustainability regulations
- Conducted field observations, user testing, and semi-structured interviews with stakeholders and pallet users

Multithreaded Producer-Consumer System, WPI

Aug 2024 – Oct 2024

- Built a multithreaded producer-consumer system in C/C++ using pthread and semaphores for synchronized buffer access.
- Added support for adjustable buffer sizes and up to 10 consumer threads, reducing average runtime by 25%
- Integrated a barrier() routine for synchronized thread completion, ensuring consistent performance in testing.

EXPERIENCE

Claims and IT Assistant, The Black Car Fund, Queens, NY

Summer 2021, 2022, 2023, 2024, 2025

- Strengthened company cybersecurity posture by installing software patches, firewall tools, and antivirus programs across employee workstations.
- Monitored system logs and user access to detect suspicious activity; escalated incidents to IT leadership as needed.
- Managed 5-10 client interactions per day, prioritizing time-sensitive insurance and legal correspondence.
- Processed 1000+ insurance claims, maintaining a comprehensive SQL/AWS-based database for internal use.
- Edited spreadsheets, drafted correspondence, and organized digital files related to legal and medical documentation.

Computer Systems Security, WPI

Jun 2025 – Sep 2025

- Completed advanced projects on buffer overflows, format-string vulnerabilities, race conditions, setuid exploits, and privilege escalation.
- Built and modified vulnerable C programs, disabling protections such as ASLR to analyze memory addresses and craft working exploits.
- Developed Python scripts for payload delivery, including memory corruption and arbitrary code execution using nc and custom exploit code.
- Applied advanced debugging and reverse-engineering techniques using GDB, Docker, and Ubuntu VMs.

LEADERSHIP/ORGANIZATIONS

WPI Cyber Security Club, WPI

Aug 2023 - Present

- Participated in local and national CTF competitions.
- Practiced ethical hacking, network security, cryptography, and incident response.

Computer Science Peer Mentor, WPI

Aug 2024 - Present

- Mentored, assessed exams, held office hours, and provided one-on-one help across 4 different Computer Science courses to help new students understand programming concepts.

Theta Chi Epsilon Member, WPI

Nov 2022 – Present

Assistant Risk Manager (Jan 2023 – Jan 2024)

- Assessed and identified risks that could harm the safety, security, or financial success of the Theta Chi fraternity.