

DAMANJIT SINGH

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EDUCATION

Marist University, Poughkeepsie, NY

Expected Graduation May 2027

Bachelor of Science in Computer Science, Concentrating in Software Development, Minor in Information Technology, Information Systems, and Cybersecurity

Languages: Fluent in English, Proficient in Punjabi, Proficient in Hindi

RELEVANT EXPERIENCE

Technology Instructor, OpenHub Project, Poughkeepsie NY

June 2026-Present

- Instructed individuals of varying technical backgrounds in core technology concepts, adapting curriculum to ensure comprehension for beginners and advanced users in the same classroom.
- Designed and delivered curriculum focused on accessibility and clarity, improving learner retention and engagement.
- Facilitated hands-on workshops and 1:1 advising sessions that developed members' technical proficiency and helped build project portfolios beyond academic requirements.

Malware Detection Research Intern, Marist University Joint Study, Poughkeepsie NY

October 2025-May 2026

- Researching and detecting macOS backdoor malware using machine learning and collecting logs to identify malicious patterns.
- Using a secure malware testing environment for safe data collection and execution
- Documenting results and data in a concise and effective manner for collaborators

IT Support Intern, Marist University, Poughkeepsie NY

October 2025-December 2025

- Diagnosed and resolved hardware and software issues across multiple Windows environments for desktops and laptops
- Utilized industry-standard tools MemTest and Ventoy to perform system troubleshooting and OS deployment
- Managed and organized hardware intake for repair workflows, supporting a queue of 30+ devices

Stem Instructor Intern, Lavner Education, Garden City NY

June 2025-August 2025

- Troubleshooting over 100 company laptops, completing OS reinstallation, and software debugging.
- Delivering high level curricula for JavaScript, Python, HTML, and CSS in an efficient and timely manner
- Assisting in managing over 234 students while troubleshooting student programming projects

RELEVANT PROJECTS

Home-Lab Pen Testing and Resolution Environment

September 2025-Present

- Used Nmap, Nessus, and Wireshark on Virtualbox VMs to scan, exploit, and remediate critical vulnerabilities on Metasploitable
- Applied Defense-in-Depth principles such as service and network hardening to patch identified vulnerabilities.

6502 –class CPU Virtual Machine Development

September 2025-Present

- Built a 6502 emulator in Typescript capable of executing programs created within the instruction set, modeling hardware components via OOP classes
- Maintained the codebase via GitHub for version control and code review

Maple-A1, Github Code Submission Evaluator

January 2026-Present

- Contributed to a Python and Docker based automated grading pipeline that sandboxes and evaluates student code for professor review
- Built on a DevOps workflow; On track to be adopted by Marist University School of Computer Science and Mathematics

LEADERSHIP

Resident Assistant, Marist University, Poughkeepsie NY

February 2025-Present

- Communicated updates to the Resident Assistant Council and full ResLife staff, ensuring clarity, accuracy, and appropriate tone
- Planned and executed campus-wide events that promoted wellness, diversity, engagement, and community.

Sikh Student Association (President), Marist University

August 2025-Present

- Advising board members in the effective completion of their duties while communicating and coordinating with campus resources to put together campus wide events, optimizing student engagement.

SKILLS

Programming Languages: HTML, CSS, Javascript, Typescript, Python, COBOL, JCL, SQL

Familiar Software/Tools: GitHub, Claude Code, Cursor IDE, NVIDIA CUDA, Docker, Wireshark, Virtualbox, Nmap, Nessus, Coqui XTTS v2, OpenWakeWord, VenToy, MemTest86, Node.JS, Express.JS, Django, Cisco CLI

Operating Systems: Windows(7-11) Kali/Ubuntu Linux