Rumi Loghmani

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EDUCATION

Carnegie Mellon University — **Pittsburgh, Pennsylvania**
*Master of Science in **Mechanical Engineering** with AI Research (4.0 GPA)* — Expected May 2027

Stevens Institute of Technology — **Hoboken, New Jersey**
*Bachelor of Engineering in **Computer Engineering** (3.85 GPA)* — Class of 2025

Honors: Edwin Stevens scholarship, Presidential Scholarship, ICUNJ Research Grant, Dean's list

Relevant Coursework: Applied Machine Learning, AI Agents, Designing and Deploying AI Systems, Data Structures & Algorithms, Python, Microprocessor Systems, Digital Systems Design, Operating Systems

Technologies: Python, Cuda, JavaScript, Java, C#, C++, SQL, React, Solidworks

Portfolio: http://bit.ly/rumi-log

EXPERIENCE

Mechanical and AI Laboratory (CMU) — **Pittsburgh, Pennsylvania**
Graduate Researcher — Sep 2025 – present

Project: Robotic LEAP Hand Control

- Created a **teleoperation** system with VR motion tracking usedto create data for a diffusion policy in real time with intuitive robot control, reducing data collection time by half? .
- Researching **Diffusion Policy** in **robotic control** to create a system based around diffusion policy that trains multi jointed robotic hand and arm on dexterous tasks.

Project: Biomechanics Reinforcement Learning with LLM in the Loop

- Creating a program in Python that incorporates WLM calls to develop a reinforcement learning algorithm for a walking simulation in MyoAssist.

Jadu Studios — **San Mateo, California**
AI Engineering Intern — June 2025 - August 2025

- Researched and prototyped multi-view image generation techniques to maintain **background and setting consistency** across camera angles in scenes, improving visual coherence for Jadu's animated shorts.
- Designed and implemented a **Python**-based **Gen-AI** pipeline that generates multiple shots of the same environment, expediting spatial alignment and reducing inconsistencies across animation sequences.

TikTok — **San Jose, California**
Intern: Full-stack Software Developer — May 2024 – Nov 2024

- Developed and deployed an automated pitch deck generation tool using **Google APIs**, streamlining the creation of customized pitches for advertisers. Built the supporting website with **Python, JavaScript, and HTML/CSS**, leading to adoption by **100+ clients** and a **4x+ increase** in mission product engagement.
- Built and deployed a **React** and **Node.js** based platform that provided advertisers with curated trend-based ad lineup recommendations. Designed the **front-end** to optimize workflow efficiency, resulting in adoption by **1,000+ clients** and a **20x increase** in custom lineup usage.
- Redesigned and implemented the tech stack needed for the "Mission-all-in-one" product, resulting in improved API pipelines, more logical data querying, and better code repository structure.

Stevens Wearable Robotics System Laboratory — **Hoboken, New Jersey**
Undergraduate Researcher - Project: Smart Exoskeleton for Stroke Patients — Oct 2022 – April 2025

- Used **3D CAD** software to develop an ankle-foot exoskeleton using a series of elastic actuators to assist stroke patients in relearning how to walk.
- Led research project to optimize the energy regeneration system of the exoskeleton to remove the need for a shunt regulator. Used MatLab to analyze energy data and altered the circuitry to achieve this goal.

Languages: Chinese (fluent); Persian (fluent) | **Activities:** CMU Explorers & Climbers, AI Mech-E Fellow