Rumi Loghmani

24 Jody Ct., San Mateo, CA 94402 | 650.288.8269 | rumiqlog@gmail.com

EDUCATION

Carnegie Mellon University — **Pittsburgh, Pennsylvania**
***Masters** of Science in **Mechanical Engineering** with Thesis* — Expected May 2027

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

Honors: Edwin Stevens scholarship, Presidential Scholarship, ICUNJ Research Grant, Dean's list (7 semesters)
Relevant Coursework: Applied Machine Learning, Data Structures & Algorithms, Python, Microprocessor Systems, Digital Systems Design, Engineering Economics & Product Management, Operating Systems
Languages: Python, Javascript, TypeScript, C++, C, HTML/CSS, SQL, Java, VHDL
Technologies: Three.js, Vue.js, React.js, p5.js, Go, AWS, GenAI, Google APIs (authentication, drive), node.js, Cadence, RESTful, Node, Swift, Tableau, Express.js, Matlab, Solidworks, Fusion 360, Jira, Azure, Git
Portfolio: http://bit.ly/rumi-log

WORK EXPERIENCE

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

- Conducted early-stage research and developed **AI-driven** applications using Python to enhance Ad products.
- 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

- Developed an ankle-foot exoskeleton using a series of elastic actuators to assist stroke patients in relearning how to walk
- Designed and built a single-motor cable-driven system in MATLAB and SolidWorks to actuate ankle movements. Engineered the spooling implement, power unit, and mechanical interfaces while constructing the electronic circuitry for the power supply, ensuring proper functionality and system reliability.
- 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.

Booz Allen Hamilton — **Remote**
Technology Consulting Intern — June 2023 – August 2023

- Designed a cloud-based secure, interactive, and collaborative mapping solution for battle theater data-sharing using an Attribute-Based permission process with C++, node.js, AWS, Azure and presented to upper management as a future adaptation for more secure mapping solutions.

Languages: Chinese (fluent); Persian (fluent) | **Activities:** Stevens NSBE, Blueprint Club, Biomechatronics