Talia Ben-Naim

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EDUCATION

Northwestern University, Evanston, IL   Sept. 2021 - June 2025
Robert R. McCormick School of Engineering and Applied Science; GPA: 3.89/4.00
Bachelor of Science in Computer Science
Master of Science in Computer Engineering

SKILLS

- Proficient in C, C++, Python, Arduino, Bash, Git, SQL, MATLAB, R, Assembly, and HTML
- Beginner knowledge of Linux, Verilog, VHDL, FPGA, JavaScript, React, Docker, and AWS

WORK EXPERIENCE

HP Inc, Vancouver, WA   June 2024 – Sept. 2024
Firmware Engineering Intern
- Built a python-based Microsoft Teams alert tool for firmware engineers, resulting in increased productivity
- Validated 3 hardware blocks in an image processing pipeline for consumer-grade printer ASICs by developing C++ firmware-level functional tests, ensuring product performance and dependability

Keysight Technologies, Colorado Springs, CO   June 2023 – Aug. 2023
Software Engineering Intern
- Collaborated on an Agile team to design a full-stack web app from scratch with Django, NextJS, Docker, relational databases, and more, empowering managers to track and update sales employees' quotas
- Assisted to research and build foundations of machine learning recommendation engine for eCommerce site

Oak Ridge National Laboratory, Oak Ridge, TN   June 2022 – Aug. 2022
Omni Technology Alliance Intern
- Researched feature engineering and hyperparameter tuning for a convolutional graph neural network, improving model accuracy by 38% and enhancing identification of candidate materials for capturing CO_2 gas

Los Alamos National Laboratory, Los Alamos, NM   Oct. 2019 - Sept. 2021
Student Intern
- Designed and documented a workflow to manage and analyze materials test data within an Ansys database
- Increased data-uploading efficiency by over 90% by creating python scripts to automate workflow
- Mentored a high school student to continue data management work and trained 4 coworkers to use workflow

PROJECTS

Engineers for a Sustainable World, Evanston, IL   Sept. 2022 – Present
Team member
- Partnered with club members to develop a dynamic website using React and Firebase, allowing for seamless remote control, automation, and monitoring of an aquaponics system
- Deployed live video streaming with an ESP32 camera and a Raspberry Pi, enabling continuous observation

Design Thinking and Communication Course, Evanston, IL Mar. 2022 – June 2022
Team member
- Collaborated with team of 4 students to design and prototype a protective cover for a prosthetic hip joint
- Managed project timeline and consulted with client and user to solicit feedback and iterate on product design

LEADERSHIP

Northwestern University Murphy Scholars, Evanston, IL   Sept. 2021 – Present
Social Chair
- Organized annual social events for 65 program participants, fostering engagement and collaboration

Cherry Bombs Junior Roller Derby, Los Alamos, NM   June 2014 – Sept. 2021
Team Captain; Coach
- Coached 25 skaters aged 8-17, designing and leading drills to improve skills and teamwork