

# Miriam Kim

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## EDUCATION

### Harvard University

Cambridge, MA

*B.A. in Computer Science*

*May 2027*

- Awards: Omni Blockchain/Web3 Research Symposium Winner
- Organizations: The Harvard Advocate (Tech Board), Augmented/Virtual Reality Club (Co-President), Powerlifting Team, Harvard Caribbean Club
- Coursework: Systems Programming, Computer Networking, Introduction to Electrical Engineering, Probability and Statistics, Data Visualization, Data Structures and Algorithms, Discrete Math, Linear Algebra, Design in Virtual Reality (MIT 2.177)

## EXPERIENCE

### Spot and Tango

June 2025 - August 2025

*Software Engineering Intern*

*New York, NY*

- Reduced bugs and tech debt by 5x by writing automated integration tests using Playwright and Bash.
- Boosted customer retention and lifetime value by 18% through a sitewide promotion feature, implementing backend services in Python.
- Increased customer engagement by 15% by building backend logic in Python to support A/B/C testing for SMS campaigns.

### Radcliffe Institute for Advanced Study

August 2024 – May 2025

*Research Partner to Jessica Vaughn*

*Cambridge, MA*

- Designing and 3D printing 5+ sculptural components for an art installation in award-winning artist's upcoming solo exhibition using Blender, Fusion 360
- Engineering airflow control system for a pneumatic sculpture, using C++ and Arduino to implement control logic.
- Creating 3D renderings of gallery spaces to increase productivity in prototyping, using Rhino, Blender

## PROJECTS

### Emergent Misalignment Replication | *HuggingFace, Colab, Python, LoRA finetuning for LLMs*

May 2025

- Fine-tuned Meta's LLaMA 3.2B Instruct model with LoRA adapters on misaligned datasets to analyze high coherency with low alignment.
- Reproduced findings from *Model Organisms for Emergent Misalignment* paper at smaller scale.
- Developed training/evaluation pipeline in Colab with model I/O, inference, and CSV output.

### LiftAssist | *Arduino, 3D Printing, CAD*

May 2025

- Creating sensor-embedded barbell clamps to improve user's lifting form by providing real-time feedback and measurements.
- Programming time-of-flight sensors, accelerometer/gyroscope system for accurate position, angle, and depth tracking using Arduino
- Designing and 3D printing hardware casings using Fusion 360

### Acoustic Human Pose Classifier | *PyTorch, Jupyter Notebook, Python*

November 2022

- Processed dataset of 500+ recording samples, preparing training data for a human-pose classification model using acoustic vibrations.
- Applied dimensionality reduction techniques PCA and t-SNE to optimize feature selection
- Trained a neural network with PyTorch in Jupyter Notebook, achieving 84% accuracy in identifying human poses from acoustic data.

## TECHNICAL SKILLS

**Languages:** Python, C, C++, JavaScript, HTML/CSS, SQL, Bash

**Libraries/Frameworks:** React.js, Flask, Django, PyTorch, Pandas, Scikit-Learn, Qiskit

**Platforms/Tools:** Linux, Git, Docker, AWS S3, AWS Lambda

**Engineering/CAD:** Blender, 3D Printing, Autodesk Fusion, Onshape, Solidworks, Arduino