# Armaan Kohli

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## Experience

**Software Engineer**, *Memorial Sloan Kettering Cancer Center* 05/2021 – present

- Building data and machine learning pipelines for multi-modal computational oncology research at scale

**Research Assistant**, *Memorial Sloan Kettering Cancer Center & The Cooper Union* 06/2020 – 05/2021

- Developed quantitative methods to advance clinical understanding of breast cancer treatments and improve patient outcomes
- Advised undergraduate students on applied machine learning, natural language processing and data mining projects

**Undergraduate Research Fellow**, *National Institutes of Health* 05/2019 – 08/2020

- Developed computer vision tools to interpret high-throughput electron microscopy data
- Researched deep learning methods to boost performance of cell segmentation algorithms via image super-resolution and alignment
- Improved pipeline for job submission on a high-performance computing cluster

**Quantum Device Research Intern**, *New York University* 08/2019 - 05/2020

- Researched semiconductor-superconducting junctions and transistors to realize tune-able superconducting qubits
- Designed, simulated and fabricated InAs-Al FET transistors to characterize cryogenic and room temperature performance
- Certified to use semiconductor fabrication tools in a class 100 cleanroom

**Research & Development Intern**, *Revolutionary Cooling Systems* 01/2018 - 09/2018

- Developed an embedded IoT system to track temperatures of liquids in commercial cooling vessels
- Designed and prototyped printed circuit boards for mass production, considering cost, antenna design, firmware programming capabilities and power consumption
- Wrote embedded firmware for a Bluetooth Low Energy SoC to transmit metrics while optimizing battery life

## Education

**M.Eng.** in Engineering at The Cooper Union 2020–2022

Thesis: *Graph Machine Learning with Scattering Transforms* • GPA 4.0

**B.Eng.** in Electrical Engineering at The Cooper Union 2016-2020

Awarded Half-tuition Scholarship, Innovator Merit Scholarship, Harold Erwin Rue Prize

## Software, Languages & Skills

Python, MATLAB, PyTorch, TensorFlow/Keras, scikit-learn, C, CUDA C, C++, Git, Linux, LaTeX, HTML/CSS, CAD tools for circuit design and layout