

Benjamin E. Jordan

bej9@cornell.edu | 607-339-1740
[LinkedIn](#) | [Portfolio Website](#) | [GitHub](#)

Education	Cornell University M.Eng. in Computer Science, Concentration in Machine Learning	[Dec 2023]
	Rochester Institute of Technology B.S. in Computer Science, Minor in Music and Technology	[Dec 2022]
Skills	Programming: Python, C/C++, C#, Java, Javascript, NumPy, PyTorch, Angular, SQL Other Skills: Git, Linux, Unit Testing, Agile Development, LaTeX	
Experience	Machine Learning Intern	[KLA, May 2023 - Present]
	<ul style="list-style-type: none">Tasked with researching and implementing ML computer vision solutions to improve automatic semiconductor defect detection in the ZetaWill present project during a talk and poster board session at the end of the internship	
	Research Software Developer - Link to Prototype	[RIT, Aug 2022 - Jan 2023]
	<ul style="list-style-type: none">Hired part-time by RIT faculty to develop software for spatial audio researchIndependently created a program that collects data on how users interpret spatial audioTechnologies used include Three.js, Angular, and Typescript	
	Software Engineering Intern	[Carestream, May 2022 - Aug 2022]
	<ul style="list-style-type: none">Developed and maintained C# back-end functionality in Carestream's ImageView X-Ray softwareSolved issues allowing users to take long-length x-rays with incorrect settings	
	Research Software Developer - Link to Website	[RIT, June 2020 - Aug 2021]
	<ul style="list-style-type: none">Independently designed and implemented data collection software for a speech perception and cochlear implant research project with RIT and UIowa facultyCreated 8 listening test modules using Javascript and the Web Audio APIParticipated in weekly team meetings where software progress was presented	
Coursework	Computer Architecture, Algorithms, Programming Languages, Operating Systems, Cryptography, Parallel Computing, Distributed Systems, Networking, Machine Learning, Reinforcement Learning, Computer Vision, Graph Theory	
Activities	RIT Varsity Track and Field (15-20 hrs / week commitment)	[March 2019 - Dec 2022]
	RIT EDM Club Founder & Officer	[May 2020 - May 2022]
	RIT AI Club Member	[September 2022 - Dec 2022]
Awards	Liberty League All-Academic Team	
	RIT Presidential Merit Scholarship	
Projects		
	Graph Neural Network Research Project	
	<ul style="list-style-type: none">Designed, implemented, presented, and reported an experiment on PyTorch GraphSAGE modelProposed that using mean-pooling aggregation for the first layer of our model would improve model performance vs. using max-pooling for all layers	
	DSLabs	
	<ul style="list-style-type: none">Created a sharded key-value storage system using the DSLabs Java frameworkImplemented Paxos for replica group consensus, 2PC to achieve atomic commit for distributed transactions, and dynamic load balancing of shards to handle reconfiguration	
	EQ Audio Effect	
	<ul style="list-style-type: none">Wrote a four filter parametric equalizer plugin using the JUCE C++ frameworkSuccessfully used the EQ inside personal music making software	