

# Benjamin E. Jordan

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

Education	<b>Cornell University</b> M.Eng. in Computer Science - Concentration in Machine Learning & Systems	[Expected Dec 2023]
	<b>Rochester Institute of Technology</b> B.S. in Computer Science - Minor in Music and Technology - 3.65 GPA [3.94 avg. during 2nd half of degree]	[Graduated Dec 2022]
Skills	<b>Programming:</b> Python, C/C++, C#, Java, Javascript, NumPy, PyTorch, Scikit-Learn, Angular, SQL <b>Other Skills:</b> Git, Linux, Unit Testing, Agile Development, LaTeX, Reading Research Papers	
Experience	<b>Machine Learning Intern @ KLA</b>	[May 2023 - Present]
	<ul style="list-style-type: none"><li>• Researched and implemented ML solutions for semiconductor defect detection in the <a href="#">zeta</a></li><li>• Used transfer learning with vision transformers to improve feature extraction algorithms</li><li>• Proposed 2-stage cascade to improve accuracy, efficiency, and interpretability</li><li>• Model achieved cross-validated scores close to 100% on preliminary, in-distribution tests</li><li>• Presented project during poster board session and talk with leadership team</li></ul>	
	<b>Research Software Developer @ RIT</b>	[Aug 2022 - Jan 2023]
	<ul style="list-style-type: none"><li>• Hired part-time by faculty to develop software for spatial audio research during the semester</li><li>• Independently created a <a href="#">program</a> for collecting data on how users interpret audio</li><li>• Technologies used include Three.js, Angular, and Typescript</li></ul>	
	<b>Software Engineering Intern @ Carestream</b>	[May 2022 - Aug 2022]
Relevant Coursework	<ul style="list-style-type: none"><li>• Developed and maintained C# back-end functionality in Carestream's ImageView X-Ray software</li><li>• Solved major issue allowing users to take long-length x-rays with incorrect settings</li><li>• Worked as a member of an agile software development team</li></ul>	
	<b>Research Software Developer @ RIT</b>	[June 2020 - Aug 2021]
	<ul style="list-style-type: none"><li>• Independently developed <a href="#">software</a> for cochlear implant research project with RIT &amp; UIowa faculty</li><li>• Created 8 listening test modules using Javascript and the Web Audio API</li><li>• Participated in weekly team meetings where software progress was presented</li><li>• Data collected from the program was used to produce multiple research publications</li></ul>	
	<b>ML:</b>	Machine Learning, Reinforcement Learning, Natural Language Processing, Artificial Intelligence
	<b>Sys:</b>	Large Scale Machine Learning, Mathematical Foundations of Machine Learning, Computer Vision
Activities	<b>Math:</b>	Distributed Systems, Computer Architecture, Operating Systems, Networks, Parallel Computing
	<b>Graph Theory, Matrix Computations</b>	
	<b>RIT Varsity Track and Field (15-20 hrs / week commitment)</b>	[March 2019 - Dec 2022]
Awards	RIT AI Club Member	[September 2022 - Dec 2022]
	Private CS Tutoring	
	RIT Presidential Merit Scholarship	
Projects	Liberty League All-Academic Team	
	<b>DSLabs</b>	
	<ul style="list-style-type: none"><li>• Created a distributed key-value store using the DSLabs Java framework</li><li>• Implemented Paxos for replica group consensus, 2PC to achieve atomic commit for distributed transactions, and dynamic load balancing of shards to handle server reconfiguration</li></ul>	
	<b>EQ Audio Effect</b>	
	<ul style="list-style-type: none"><li>• Wrote a four filter parametric equalizer plugin using the JUCE C++ framework</li><li>• Successfully used plugin inside personal music making software</li></ul>	
	<b>Graph Neural Network Research Project</b>	
	<ul style="list-style-type: none"><li>• Designed, implemented, presented, and reported an experiment on the <a href="#">graph sage</a> architecture</li><li>• Proposed that using mean-pooling aggregation for the initial layers of our model would improve performance compared to using only max-pooling for all layers</li></ul>	