

# Benjamin E. Jordan

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[LinkedIn](#) | [Portfolio Website](#) | [GitHub](#)

Education	<b>Cornell University</b> M.Eng. in Computer Science - Concentration in Machine Learning	[Expected Dec 2023]
	<b>Rochester Institute of Technology</b> B.S. in Computer Science - Minor in Music and Technology	[Graduated Dec 2022]
Skills	<b>Programming:</b> Python, C/C++, C#, Java, Javascript, NumPy, PyTorch, Angular, SQL <b>Other Skills:</b> Git, Linux, Unit Testing, Agile Development, LaTeX	
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• Used transfer learning with vision transformers to improve outdated feature extraction algos</li><li>• Proposed a 2-stage cascade of binary (whether a defect exists) and multiclass (what kind of defect) classification models to improve prediction accuracy, efficiency, and interpretability</li><li>• Collected and worked with raw image data from the Zeta</li></ul>	
	<b>Research Software Developer @ RIT - <a href="#">Link to Prototype</a></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 program that collects data on how users interpret spatial audio</li><li>• Technologies used include Three.js, Angular, and Typescript</li></ul>	
	<b>Software Engineering Intern @ Carestream</b>	[May 2022 - Aug 2022]
	<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>	
Coursework	<b>Research Software Developer @ RIT - <a href="#">Link to Website</a></b>	[June 2020 - Aug 2021]
	<ul style="list-style-type: none"><li>• Independently designed and implemented data collection software for a speech perception and cochlear implant <a href="#">research project</a> with RIT and 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></ul>	
	Computer Architecture, Algorithms, Programming Languages, Operating Systems, Cryptography, Parallel Computing, Distributed Systems, Networking, Machine Learning, Reinforcement Learning, Computer Vision, Graph Theory, NLP, Large Scale Machine Learning	
Activities	<b>RIT Varsity Track and Field (15-20 hrs / week commitment)</b>	[March 2019 - Dec 2022]
	RIT AI Club Member	[September 2022 - Dec 2022]
Awards	<b>RIT Presidential Merit Scholarship</b> Liberty League All-Academic Team	
Projects	<b>DSLabs</b>	
	<ul style="list-style-type: none"><li>• Created a sharded key-value storage system 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 reconfiguration</li></ul>	
	<b>Graph Neural Network Research Project</b>	
	<ul style="list-style-type: none"><li>• Designed, implemented, presented, and reported an experiment on PyTorch <a href="#">GraphSAGE</a> model</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>	
	<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 the EQ inside personal music making software</li></ul>	