

# Viraj Shitole

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408-466-4677

EDUCATION	<b>Georgia Institute of Technology</b>	December 2025
	Master of Science in Electrical and Computer Engineering	GPA: 4.0
	<b>University of Illinois at Urbana-Champaign</b>	May 2023
	Bachelor of Science in Electrical and Computer Engineering	GPA: 3.75
	Bachelor of Science in Mathematics and Statistics	GPA: 3.75
INDUSTRY EXPERIENCE	<b>Amazon, Seattle, WA</b>	Summer 2022, Summer 2023
	Software Engineer Intern	
	<ul style="list-style-type: none"><li>• Researched alternatives for Personalization team's approximate nearest neighbor algorithm in order to generate best product recommendations for the Amazon website.</li><li>• Delivered benchmark report demonstrating how to improve accuracy, runtime, and memory consumption for querying the Amazon product database.</li></ul>	
	<b>Capital One, McLean, VA</b>	Summer 2021
	Software Engineer Intern	
	<ul style="list-style-type: none"><li>• Created Apache Airflow Directed Acyclic Graphs to obtain data quality metrics so that consumers have access to data enabling them to make better financial decisions.</li><li>• Incorporated technologies from AWS, Databricks, and Snowflake to create data pipeline and perform analysis.</li></ul>	
RESEARCH EXPERIENCE	<b>Graph Computation and Machine Learning Lab</b>	January 2024 - Present
	Advisor: Pan Li	
	<ul style="list-style-type: none"><li>• Building a foundation model for large source code datasets to improve downstream performance on system optimization tasks.</li><li>• Developing algorithms unique to the directed graph data structure for graph learning.</li></ul>	
	<b>Center for Advanced Electronics through ML</b>	January 2021 - December 2022
	Advisor: Elyse Rosenbaum	
	<ul style="list-style-type: none"><li>• Created data-driven models for transistors using Recurrent Neural Networks to replace time-intensive and costly physics-based circuit simulators.</li><li>• Collaborated with researchers from Sandia National Laboratories to apply models in their laboratory environment.</li></ul>	
EXTRA- CURRICULAR ACTIVITIES	<b>Illini Swim Club</b>	
	<ul style="list-style-type: none"><li>• President January 2022 - December 2022</li><li>• Record Holder: 500 Free, 1000 Free, 400 Free Relay, 800 Free Relay</li></ul>	
	<b>Math Competitions</b>	
	<ul style="list-style-type: none"><li>• United States Mathematical Talent Search: Honorable Mention</li><li>• American Mathematics Competitions: AMC 12 (Top 5% score), AIME (Top 15% score)</li></ul>	