

## Education

<b>Georgia Institute of Technology</b>	<b>B.S. in Computer Science</b>	Jan. 2023 – (May 2025)
<ul style="list-style-type: none"><li>Notable coursework: <b>(completed)</b>: Data Structures &amp; Algorithms, Computer Organization, Object-Oriented Design, Databases, Combinatorics, Linear Algebra. <b>(in progress)</b>: Algorithm Design &amp; Analysis, Computer Systems &amp; Networks, High-Performance Computing.</li></ul>		<b>GPA: 3.88</b>
<b>University of North Georgia</b>	<b>B.S. in Physics</b> (left incomplete)	Aug. 2020 – Dec. 2022
<ul style="list-style-type: none"><li>Notable coursework: Computational Physics, Circuits, Electricity &amp; Magnetism, Mechanics, Modern Physics, Differential Equations, Mathematical Proof.</li></ul>		<b>GPA: 4.0</b>

## Skills

- Languages:** Java, C, Python, JavaScript
- Frameworks & Libraries:** React, ChakraUI, Next.js, PyTorch, Scikit-Learn, NumPy, Matplotlib
- Other Tools:** Git/GitHub, Figma, Android SDK, MySQL, MongoDB, Node.js

## Projects

<b>2D RPG Game</b>   <i>Android, Java, Git/GitHub</i>	Aug. – Dec. 2023
<ul style="list-style-type: none"><li>Collaborated with an <b>Agile</b> development team to produce a dungeon crawler RPG game for Android.</li><li>Spearheaded implementation of tile-based level maps, UI rendering, and a custom JSON parser for game assets, also contributing to other key features and unit testing with the <b>JUnit</b> framework.</li><li>Utilized <b>MVVM architecture</b>, <b>design patterns</b>, and <b>SOLID</b> principles to develop maintainable and testable software, following best practices for object-oriented development.</li><li>Managed the GitHub repository, conducted code reviews, produced documentation, and delineated team tasks.</li></ul>	
<b>University Club Explorer Website</b>   <i>React/Next.js, MongoDB, ChakraUI, Figma</i>	Aug. – Dec. 2023
<ul style="list-style-type: none"><li>Contributed to an endeavor to replace Georgia Tech's existing club/organization discovery site, aimed at improving searchability and <b>user experience</b> for students looking to get involved on campus.</li><li>Drafted designs using <b>Figma</b> and implemented them in the site for a pleasing and smooth front-end.</li><li>Implemented scrolling pagination and search/ranking functionality to help students easily find relevant clubs.</li></ul>	
<b>Time-Series Forecasting LSTM</b>   <i>PyTorch, RescueTime API</i>	June - July 2023
<ul style="list-style-type: none"><li>Trained long-short-term memory neural networks (<b>LSTMs</b>) on four years of my own computer usage data from a popular time management app to understand and predict patterns in my productivity.</li></ul>	
<b>Circuit Simulator</b>   <i>Python, NumPy, Matplotlib</i>	Sept. – Nov. 2022
<ul style="list-style-type: none"><li>Developed a <b>computational model</b> to solve complex circuits constructed from ideal elementary components.</li></ul>	
<b>Polymer Simulation Analysis</b>   <i>Keras, Scikit-Learn, NumPy, Matplotlib</i>	May – Dec. 2022
<ul style="list-style-type: none"><li>Used <b>machine learning</b> and <b>neural network</b> techniques to identify phase transitions of simulated polymers.</li></ul>	

## Experience

<b>Learning Assistant</b>	<b>University of North Georgia</b>	Aug. 2021 – Dec. 2022
<ul style="list-style-type: none"><li>Helped teach eight sections of the introductory <b>physics lab</b> course, including giving lectures, setting up equipment, addressing student difficulties, grading assignments, and administering exams.</li><li>Noticed students were struggling with <b>Excel</b> and took initiative to make a series of <b>video tutorials</b>, which have helped hundreds of students and are still used after several semesters.</li><li>Led training sessions over lab procedures for new learning assistants and professors.</li><li>Conducted <b>data analysis</b> on assignment feedback and grades to inform our teaching practices. Presented findings at a conference of the American Association of Physics Teachers' local chapter.</li></ul>		
<b>Technician</b>	<b>Water Quality &amp; Trend Monitoring Lab</b>	May – Dec. 2022
<ul style="list-style-type: none"><li>Conducted regular monitoring of Lake Lanier's surrounding watersheds by collecting water samples and analyzing them in both field and laboratory settings.</li><li>Followed <b>safety procedures</b> for working with and disposing of chemicals.</li></ul>		