

# NISHAN SHEHADEH

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## EDUCATION

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<b>Vanderbilt University</b> M.Sc Computer Science, BS Computer Science and Applied Mathematics, School of Engineering Vanderbilt National Merit Scholarship Recipient GPA: 3.670, CS GPA: 3.757	2019-2023 Nashville, TN
<b>Rye Country Day School</b> SAT: 1520 MIT 6.006 Algorithms course in computer science	2015- 2019 Rye, NY

## PROJECTS

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<b>Real-Time Coherence Verasonics</b> <ul style="list-style-type: none"><li>Designed and implemented a real-time acoustic window detection kernel for a Verasonics ultrasound system using Matlab, MEX, and CUDA (C)</li><li>Wrote and optimized an algorithm using parallel computing that interfaces with the Verasonics system</li><li>Designed an intuitive GUI using Matlab</li></ul>	2021
<b>Ray Tracer</b> <ul style="list-style-type: none"><li>Implemented a ray tracer using C/C++ that can render images based on scripts, display the results to the screen, and save the images to TIFF files</li><li>Ray tracer can handle ambient light calculations, orthographic cameras, reflections, and shadows</li></ul>	2020
<b>Caritas of Port Chester Food Bank</b> <ul style="list-style-type: none"><li>Built a login system and food ordering website for a local food bank on a Scrum development team</li><li>Used HTML, Pug, CSS, MongoDB, and NodeJS to build the website</li></ul>	2019
<b>Personal Portfolio Website</b> <ul style="list-style-type: none"><li>Used HTML, CSS, and JavaScript to design a personal website displaying my project portfolio in detail and other personal information, URL: <a href="https://nshehadeh.github.io">nshehadeh.github.io</a></li></ul>	2021

## WORK EXPERIENCE

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<b>Summer Fellow at Vanderbilt Institute for Surgery and Engineering, BEAM Lab</b> <i>10-week Paid Student Research Program</i> <ul style="list-style-type: none"><li>Wrote code for biomedical engineering PhD student for research on transcranial ultrasound (Verasonics project)</li></ul>	2021-Present
<b>Indian Harbor Yacht Club</b> <i>Launch Tender Captain (2019-Present), Dockhand (2017-19)</i> <ul style="list-style-type: none"><li>USCG-Certified Captain (up to 100 GRT vessel)</li><li>Managed launches and support vessels; monitored mooring field; implemented safety protocols</li></ul>	2017-2020
<b>Save the Sound</b> <i>Lab Technician, Researcher</i> <ul style="list-style-type: none"><li>Conducted research to improve environmental sustainability and water quality on Long Island Sound through data collection, lab work, and analysis of water quality data</li></ul>	2018
<b>Other Work Experience:</b> Sailing instructor	2015-2017

## LEADERSHIP AND ACTIVITIES

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<b>Theta Tau Professional Engineering Fraternity, Service Chair</b> <ul style="list-style-type: none"><li>Largest engineering fraternity in the nation engaging in social, service, and professional opportunities</li><li>Organized service events for ~100 active members including assisting seniors in getting vaccines, writing letters to seniors, and park cleanups</li></ul>	Vanderbilt
<b>Midnight Run, President</b> <ul style="list-style-type: none"><li>Organized \$7,000 worth of fundraising and clothing donations for those in need in NYC</li></ul>	RCDS
<b>Lacrosse, Vanderbilt Club Lacrosse Treasurer, RCDS Varsity Captain and MVP</b> <b>Other Clubs:</b> VandyApps (Mobile App Club), Quantadores (Quantitative Finance Club)	Vanderbilt

## SKILLS

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*Technical:* C++, C, CUDA, Matlab, Python (PyTorch), Deep Learning (Coursera), JavaScript (Node.js), HTML, CSS