

NISHAN SHEHADEH

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EDUCATION

Vanderbilt University MS Computer Science, BS Computer Science and Applied Mathematics, School of Engineering Vanderbilt National Merit Scholarship Recipient GPA: 3.698, CS GPA: 3.755	2019-2023 Nashville, TN
Rye Country Day School SAT: 1520 MIT 6.006 Algorithms course in computer science	2015- 2019 Rye, NY

PROJECTS

Deep Learning RF Data (BEAM Lab) <ul style="list-style-type: none">Built a deep neural network architecture to improve the quality of ultrasound data and data processingCompleted first two courses of Andrew Ng's Deep Learning Coursera SpecializationTrained and tested multiple models on Vanderbilt's ACCRE cluster with promising initial resultsCurrently tuning hyperparameters and working to improve results	2021
Real-Time Coherence Verasonics (BEAM Lab) <ul style="list-style-type: none">Designed and implemented a real-time acoustic window detection kernel for a Verasonics ultrasound system using Matlab, MEX, and CUDA (C)Wrote and optimized an algorithm using parallel computing that interfaces with the Verasonics systemDesigned an intuitive GUI using Matlab	2021
Ray Tracer <ul style="list-style-type: none">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 filesRay tracer can handle ambient light calculations, orthographic cameras, reflections, and shadows	2020
Caritas of Port Chester Food Bank <ul style="list-style-type: none">Built a login system and food ordering website for a local food bank on a Scrum development teamUsed HTML, Pug, CSS, MongoDB, and NodeJS to build the website	2019
Personal Portfolio Website <ul style="list-style-type: none">Used HTML, CSS, and JavaScript to design a personal website displaying my project portfolio in detail and other personal information, URL: nshehadeh.github.io	2021

WORK EXPERIENCE

Summer Fellow at Vanderbilt Institute for Surgery and Engineering, BEAM Lab <i>10-week Paid Student Research Program, Undergraduate Researcher</i> <ul style="list-style-type: none">Worked for biomedical engineering PhD student for research on transcranial ultrasound (Verasonics project, Deep Learning project)	2021-Present
Indian Harbor Yacht Club <i>Launch Tender Captain (2019-2020), Dockhand (2017-19)</i> <ul style="list-style-type: none">USCG-Certified Captain (up to 100 GRT vessel) Other Work Experience: Save the Sound Lab Technician, Sailing instructor	2017-2020

LEADERSHIP AND ACTIVITIES

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

SKILLS

Technical: C++, C, CUDA, Matlab, Python (PyTorch), Deep Learning (Coursera), Unity, HTML, CSS,