

Jinay Jain

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EDUCATION

University of Delaware | B.S. in Computer Science, Honors Expected May 2023

- GPA: 4.0/4.0
- President, Association for Computing Machinery | Distinguished Scholar (top 100 of 30,000 applicants)
- Relevant Coursework:** Data Structures, Algorithms, Computer Vision, Machine Learning, Compilers, Data Mining, Parallel Computing, Software Engineering

EXPERIENCE

Software Engineering Intern Jun. 2022 - Present
Virtu Financial (high-frequency trading firm) | New York City, NY

- Improving reliability of the system that handles **30%** of all US retail stock trades

Machine Learning Intern Jun. 2021 - Aug. 2021
Matician (autonomous robotics startup) | Palo Alto, CA

- Created robotic data collection pipeline to train self-supervised models and evaluate SLAM algorithms
- Implemented **Rust** concurrency patterns to deliver a **400% speedup** in video and keypoint recording

Software Engineering Intern Jan. 2021 - Feb. 2021
schoolhouse.world (education-tech startup) | Mountain View, CA

- Implemented site-wide avatar customization with **React.js**, **Next.js** and **PostgreSQL**
- Helped scale from 500 to **10k users** through user conversations and school district partnerships

Research Assistant Jun. 2019 - Aug. 2019
Alfred I. DuPont Hospital for Children | Wilmington, DE

- Created deep learning model on ultrasound images to detect infant hip dysplasia
- Tuned model architecture in **TensorFlow** to achieve **93.4% accuracy** on test dataset

PROJECTS

Self-Driving 2D Racecar Python, PyTorch, OpenCV

- Trained a convolutional neural network to play a racing game through reinforcement learning
- Implemented proximal-policy optimization to achieve human-level performance ([demo](#))

Just a Minute JavaScript, HTML, CSS

- Designed a web experiment to measure human time perception
- Played **over 100,000 times** worldwide and used in classrooms to teach statistics principles

HONORS/AWARDS

Google Code Jam, Round 2 Qualifier - Top 3% of over 74,000 global registrants	2018, 2019, 2022
Horn Entrepreneurship, Make It Happen Challenge Funding Award	2022
Intl. Collegiate Programming Contest (ICPC), Regional Bronze Medalist	2022
U.S.A. Computing Olympiad, Gold Division	2019

SKILLS

Languages: Python, C++, Rust, C, Java, HTML, CSS, JavaScript, TypeScript, SQL, Bash
Frameworks/Libraries: TensorFlow, Keras, PyTorch, OpenCV, Node.js, React.js, Next.js
Other: Piano, Bollywood Fusion Dance, Neapolitan Pizza Baking