

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 the system that manages **30%** of all US retail stock trades
- Employing garbage-free design in **Java** to maintain code efficiency and reduce latency

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 (free, peer-to-peer tutoring startup) | Mountain View, CA

- Implemented site-wide avatar customization with **React.js**, **Next.js** and **PostgreSQL**
- Scaled platform 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 Racecar Python, PyTorch, OpenCV

- Trained a convolutional neural network to play a 2D racing game
- 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
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