

# 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, Artificial Intelligence, Data Mining, Parallel Computing, Linear Algebra, Calculus III

## EXPERIENCE

Software Engineering Intern Jun. 2022 - Present

Virtu Financial (high-frequency trading firm) | New York City, NY

- Improved reliability of pub-sub order management system that handles **30%** of US retail stock orders
- Used garbage-free, low latency design patterns in Java to handle high throughput of incoming data

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 customer 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 Firebase, 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