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 of Association for Computing Machinery (ACM) | Distinguished Scholars Program
- **Relevant Coursework:** Data Structures, Algorithms, Machine Organization, Software Engineering

EXPERIENCE

Software Intern — Jun. 2021 - Present
Matician | Palo Alto, CA

- Building lightweight graphical user interface library for autonomous robot using **Rust** and **C**
- Creating robotic data collection pipeline to train self-supervised models and evaluate SLAM algorithms

Software Intern — Jan. 2021 - Feb. 2021
schoolhouse.world | Mountain View, CA

- Architected site-wide avatar customization with **React.js** and **PostgreSQL** used by **15k users**
- Integrated SendGrid and Slack APIs into user feedback tracker with **Next.js**
- Performed A/B testing on email notifications feature to measure engagement

Student Researcher — Sep. 2020 - May 2021
University of Delaware, FLIE Lab| Newark, DE

- Built a social distancing tracker with **PyTorch** and geometric computer vision
- Programmed the DJI Tello drone to track and follow target objects with **OpenCV**
- Trained YOLOv4 object detection model for face mask detection

Research Assistant — Jun. 2019 - Aug. 2019
Alfred I. DuPont Hospital | 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

Backpropagation Visualization — Typescript, Webpack, Jest

- Created an online visualizer for backpropagation, a fundamental machine learning algorithm
- Followed **test-driven development** to ensure mathematical accuracy of automatic differentiator

HONORS/AWARDS

IvyHacks, 1st Place IBM API Prize — 2020
HackTX, Best Use of Google Cloud — 2020
Google Code Jam, Round 2 Qualifier - Top 3% of over 74,000 global registrants — 2018, 2019
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
Tools: Linux, Git, Docker, Unity (C#)