JINAY JAIN

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EDUCATION

University of Delaware Graduating 2024
Honors B.S. in Computer Science, Distinguished Scholars Program
President of the Association for Computing Machinery (ACM)

EXPERIENCE

University of Delaware, Human–Computer Interaction (HCI) Lab June 2020–Present
Research Assistant *Newark, Delaware*

- Developing a nurse training environment in augmented and virtual reality
- Using the Unity XR Interaction Toolkit to build for the Oculus Quest, Microsoft Kinect, and HoloLens
- Attending weekly paper presentations to learn about developments in HCI and AI

Nemours Alfred I. DuPont Hospital June 2019–August 2019
Research Assistant *Wilmington, Delaware*

- Developed a machine learning algorithm to perform diagnoses on a dataset of 352 ultrasound images
- Implemented convolutional neural networks and data augmentation in Python using TensorFlow
- Applied transfer learning techniques on the Google Inception v3 model
- Accepted to the Society for Pediatric Radiology 2020 Conference (cancelled due to COVID-19)

PROJECTS

BeTrade, *MongoDB, Express, React*
An online stock market game with biweekly contests. Fetches realtime stock data from the Finnhub API. Ranks each user with an N-player Elo algorithm.

Backpropagation Visualization, *TypeScript*
An automatic differentiation engine to mimic the functionality of popular machine learning libaries. Created a web application to visualize the calculation of gradients in neural networks.

VimDocs, *Vue, WebSockets*
A realtime, collaborative document editor inspired by the Vim editor and Google Docs. Implemented Socket.io interface to synchronize the client and server messages.

HONORS / AWARDS

Google Code Jam, Round 2, 2018 & 2019 - Top 3% of over 70,000 global participants
U.S.A. Computing Olympiad, Gold Division, 2019

SKILLS

Languages	Python, HTML, CSS, JavaScript, Bash, C++, Java
Frameworks	TensorFlow, Keras, React, Express, Flutter
Tools	Linux, Git, Vim, Unity (C#)
Other	NumPy, Jupyter, Pyplot, Pandas, MongoDB, Flask