

# JINAY JAIN

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## EDUCATION

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### University of Delaware

Expected May 2024

Honors B.S. in Computer Science, Distinguished Scholars Program

President of the Association for Computing Machinery (ACM)

### Charter School of Wilmington

Aug. 2016 - Jun. 2020

High School Diploma

Weighted GPA: 4.66

## EXPERIENCE

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### University of Delaware, Human-Computer Interaction (HCI) Lab

Jun. 2020 - Present

*Research Assistant*

*Newark, Delaware*

- Building 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 discuss novel research in HCI and AI

### Nemours Alfred I. DuPont Hospital

Jun. 2019 - Aug. 2019

*Research Assistant*

*Wilmington, Delaware*

- Developed a machine learning algorithm to perform diagnoses on hip ultrasound scans
- Implemented convolutional neural networks and data augmentation in Python using TensorFlow
- Accepted to the Society for Pediatric Radiology 2020 Conference (cancelled due to COVID-19)

## PROJECTS

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### BeTrade

*MongoDB, Express, React, Node, Docker*

- Built an online stock market game with biweekly contests
- Implemented an N-player Elo algorithm to rank players on a leaderboard

### AutoDiff

*TypeScript, Webpack*

- Created a backpropagation engine to mimic the operation of machine learning frameworks
- Visualized forward and backward passes in a neural network using a computation graph

### VimDocs

*Vue, WebSockets*

- Developed a collaborative text editor that mimics the Vim editor keybindings
- Used Socket.io to relay realtime messages between the client and server

## HONORS / AWARDS

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**Google Code Jam, Round 2, 2018 & 2019** - Top 3% of over 74,000 global registrants

**U.S.A. Computing Olympiad, Gold Division, 2019**

**South by Southwest EDU Startup Competition, Invited Finalist, 2019**

## SKILLS

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### Languages

Python, C++, Java, HTML, CSS, JavaScript, TypeScript

### Frameworks

TensorFlow, Keras, React, Express, Flutter

### Tools

Linux, Git, Docker, Vim, Unity (C#)

### Other

NumPy, Jupyter, Pyplot, Pandas, MongoDB, Flask