

# 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)

**Relevant Courses:** Introduction to Computer Science I & II, Data Structures, Linear Algebra

### Charter School of Wilmington

Aug. 2016 - Jun. 2020

High School Diploma, Computer Science Departmental Award

**Relevant Courses:** AP Computer Science, Algorithms, Data Structures, AP Calculus, Calculus III

## EXPERIENCE

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

Jun. 2020 - Aug. 2020

*Research Assistant*

*Newark, Delaware*

- Migrated a nurse training simulation to new virtual reality devices
- Applied the Unity XR Toolkit to build interfaces for Oculus Quest, Microsoft Kinect, and HoloLens

### Nemours Alfred I. DuPont Hospital, Radiology Department

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
- Research accepted to the **Society for Pediatric Radiology 2020 Conference**

## 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**

**IvyHacks, First Place IBM API Prize, 2020**

**HackTX, Best Use of Google Cloud, 2020**

## PROJECTS

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### Backpropagation Visualization

*TypeScript, Webpack, Jest*

- 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
- Used **test-driven development** to ensure core functionality

### Competitive Stock Market Game

*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
- Connected frontend and backend through a Node.js API

## SKILLS

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<b>Languages</b>	Python, C++, Java, HTML, CSS, JavaScript, TypeScript
<b>Frameworks</b>	TensorFlow, Keras, Node.js, React, Express, Flutter
<b>Tools</b>	Linux, Git, Docker, Vim, Unity (C#)
<b>Other</b>	NumPy, Jupyter, Pyplot, Pandas, MongoDB, Flask