JINAY JAIN

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EDUCATION

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

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 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

Backpropgation 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

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

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 with WebSockets

HONORS / AWARDS

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

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