ALISSA HSU

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EDUCATION

New York University, Courant Institute of Mathematical Sciences New York, NY
Bachelor of Arts in Computer Science, Minor in Business Studies and Web Programming and Applications Expected May 2026
- **GPA**: 3.37/4.00 | **Courses**: Web Design and Computer Principles, Discrete Math, Statistics, Calculus, Macroeconomics, Financial Accounting, Computer Systems Organizations, Data Structures, Web Development, Drawing on the Web
- **Activities**: Tech@NYU, NetImpact (social entrepreneurship club), EMPIRE (entrepreneurship club), Marketing Society club

Northern Valley Regional High School at Demarest Demarest, NJ
High School Diploma
- **GPA**: 4.54 | SAT: 1520/1600, AP World History: 5, AP Psychology: 5, AP Microeconomics: 4
- **Activities:** Japan Club (President), KARE Volunteer Club (President), Multicultural Club (Vice President), Varsity Tennis (Captain), Varsity Winter track and field (Captain), Gifted and Talented club, National Honors Society, Art club

RELEVANT EXPERIENCE

Kaizen8 Closter, NJ
Web Development Intern May 2024 – present
- Launched full-stack website showcasing the company's newest product utilizing third-party and Shopify APIs
- Collaborated with management and cross-functional development teams to bring the envisioned result to life
- Implemented systems optimizations to maximize efficiency and improve the customer experience to drive sales

Ideas Lab New York, NY
Machine Learning Intern May 2023 – Aug 2023
- Assembled a computer vision model (YOLOv8) trained on 1,000+ hand drawn annotations to track real golf balls
- Generated 1000+ pieces of synthetic data with simulated trajectories and varied backgrounds to diversify training data
- Constructed convolutional neural networks with Pytorch to fine-tune parameters within each layer

Kaizen8 Closter, NJ
Product research and Distributor Relations Intern May 2022 - Aug 2022
- Compiled data on 100+ up-and-coming products to grow the company into a top 100 Amazon seller in the world
- Expanded the range and diversity of the distributor network to cater to a broader customer base with innovative goods
- Enhanced the exportation speed by restructuring the efficiency of product preparation methods

PROJECTS

Full Stack E-Commerce Site with Shopify Closter, NJ
- Integrated Shopify API to expand on the platform's capabilities by streamlining payment and inventory automation processes
- Enhanced the visual appeal and efficiency of consumer experience with page customizations to boost sales conversion rate

Computer Vision Golf Ball Tracking and Detection New York, NY
- Produced an ML model capable of precise detection adept at handling varying trajectories and lighting conditions
- Examined the model's feature map to correct for false positives, lower detection regions, etc. to improve future iterations

Generative Art Portfolio New York, NY
- Experimented with mathematical calculations, randomness, and user interactivity to create visually compelling artwork
- Demonstrated proficiency in navigating Web APIs, raster and vector graphics, CSS animation, JavaScript libraries, etc.

SKILLS AND INTERESTS

Programming Languages: Python, Java, C, HTML, CSS, JavaScript, SQL, PHP, Swift
Frameworks/Libraries: WordPress, PyTorch, Pandas, NumPy, Scikit-learn, Matplotlib,YOLOv8, Selenium, OpenCV
Languages: Japanese (proficient)
Interests: Animation, cooking new dishes, drawing, running