Elliot Chen

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EDUCATION

Massachusetts Institute of Technology Cambridge, MA
B.S. in Computer Science and Artificial Intelligence, Minor in Finance *Expected Graduation: May 2025*
GPA: 4.9/5.0
Relevant Coursework: Algorithms, Machine Learning, Advances in Computer Vision, Discrete Mathematics, Probability and Random Variables, Differential Equations, Linear Algebra, Corporate Finance

EXPERIENCE

DGV Solutions LP Minneapolis, MN
Incoming Quantitative Analyst *June 2024*
- Will be researching optimal put-write strategies with the goal of outperforming the CBOE Put-Write Index.

MIT App Inventor Cambridge, MA
Software Engineer *Aug 2023 - Jan 2024*
- Developing Tensorflow.js extensions that integrate AI and machine learning into the App Inventor, a visual programming environment empowering over 6 million students to create their own apps.
- Building iOS compatible data science and AI toolkits using Swift.

National Taiwan University Center for Artificial Intelligence Taipei, Taiwan
Machine Learning Researcher *May 2023 - Aug 2023*
- Designed convolutional neural networks (CNN) using PyTorch, OpenCV, and MediaPipe that analyzed movement and speech impediments in patients displaying Parkinson's Disease.
- Built a backend server using Django for an iOS/Android app which used CNNs to analyze videos of patients.
- Assisted in deploying the mobile app to ten hospitals in the greater Taipei area.

Takachar Berkeley, CA
Process Engineer *Jun 2022 - Aug 2022*
- Constructed a pyrolysis reactor that produced biochar, a resource for fertilizer and carbon sequestration.
- Designed a novel automated conveyance system for reactor biomass flow which doubled biochar output.

Rohsenow Kendall Heat Transfer Laboratory Cambridge, MA
Undergraduate Researcher *Sep 2021 - May 2022*
- Characterized monovalent selective electrodialysis (MSED) and nanofiltration systems for nitrate recovery in polluted groundwater using ion chromatography, ICP-OES and Total Organic Carbon analytical techniques.
- Developed a machine learning model using scikit-learn to predict experimental carbonate equilibrium and pH changes with 95% accuracy.

PROGRAMMING

Languages: Python, TypeScript, JavaScript, C, C++, Swift, Java, SQL, Matlab

Libraries & Frameworks: PyTorch, Tensorflow, scikit-learn, OpenCV, MediaPipe, NumPy, SciPy, Pandas, Django, Node, Git

SKILLS AND INTERESTS

- Proficiency in Mandarin, Swimming (MIT Varsity Swim & Dive team member), Delta Tau Delta Fraternity, MIT Asian American Association (board member), Alpine Hiking