

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, Discrete Mathematics for Computer Science, Probability and Random Variables, Differential Equations, Linear Algebra, Programming, Corporate Finance

EXPERIENCE

MIT App Inventor

Cambridge, MA

Software Engineer

Aug 2023 - Present

- 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.

LEADERSHIP

MIT Asian American Association | Events Chair

Sep 2021 - Present

- Organized 400+ person cultural events. Manage related food, entertainment, and publicity budgets.

Delta Tau Delta Fraternity | House and Risk Manager

May 2022 - Present

- Oversee property inspections and repairs. Ensure a clean and safe living environment for over 40 members.

PROGRAMMING

Languages: Python, Java, TypeScript, JavaScript, Swift, HTML, CSS, SQL, Matlab, LaTeX

Libraries & Frameworks: PyTorch, Tensorflow, scikit-learn, OpenCV, MediaPipe, NumPy, Pandas, Django, Node.js, React, Express, Git

SKILLS AND INTERESTS

- Proficiency in Mandarin, Swimming (MIT Varsity Swim & Dive team member), Alpine Hiking