

# Eric Xie

508-314-5695 | [ericxie6@gmail.com](mailto:ericxie6@gmail.com) | [erictxie.com](http://erictxie.com) | [github.com/ericx1e](https://github.com/ericx1e)

A motivated and passionate and creative student proficient in several programming languages with substantial independent project experience seeking to learn and grow through a professional internship.

## EDUCATION

<b>University of Maryland</b>	College Park, MD
Bachelor of Science: Computer Science and Mathematics majors, Computation Finance minor	<i>Expected May 2026</i>
<ul style="list-style-type: none"><li>GPA: 3.94/4</li><li>Chinese Student Association Internal Vice President 2023–2024</li><li>Computer Science Honors</li><li>Dean's List for all 4 semesters</li></ul>	
<b>Relevant Coursework:</b> Probability Theory, Advanced Calculus Analysis, Algorithms, Computational Methods, Data Science, Data Structures, Portfolio Management, Partial Differential Equations, Machine Learning	

## TECHNICAL SKILLS

**Skills:** Python, JavaScript, Java, HTML/CSS, Matlab, C, C++, OCaml, C#, ReactJS, NodeJS  
**Developer Tools:** Git, VSCode, Jupyter, IntelliJ, SageMaker, Unity, Google Colaboratory  
**Libraries:** sklearn, pandas, p5js, NumPy, statsmodels, Matplotlib, transformers, LangChain, beautifulsoup4

## WORK EXPERIENCE

<b>Boston Scientific</b>	May 2024 – Present
<i>Rhythm Management R&amp;D Engineering Intern</i>	<i>Arden Hills, MN</i>
<ul style="list-style-type: none"><li>Developing custom code generation using retrieval augmented generation and fine tuning.</li><li>Exploring and evaluating various local LLMs, embedding models, and vector stores.</li><li>Utilized AWS SageMaker and various Python libraries including transformers, Langchain, and Qdrant</li><li>Creating a usage guide for prompt engineering and training DEV engineers.</li></ul>	
<b>Precidiag</b>	June 2022 – August 2022
<i>Machine Learning Intern</i>	<i>Watertown, MA</i>
<ul style="list-style-type: none"><li>Explored methods to optimize training data selection in machine learning.</li><li>Implemented active learning and dimensionality reduction techniques.</li><li>Achieved comparable model accuracy with two orders of magnitude fewer data.</li><li>Used Google Colaboratory and Python libraries including NumPy, pandas, sklearn, and Matplotlib.</li></ul>	
<b>Precidiag</b>	June 2021 – August 2021
<i>Software Developer Intern</i>	<i>Watertown, MA</i>
<ul style="list-style-type: none"><li>Built a web-scraper for the MEROPS online database for peptidase and protein interactions.</li><li>Created code to populate, serialize, and deserialize several edge lists including CID, and SMILES representations.</li><li>Used Jupyter Notebook and Python libraries including beautifulsoup4, PubChemPy, requests, pickle, and bz2.</li></ul>	

## PROJECT EXPERIENCE

<b>Financial Models and Portfolio Optimization</b>   <i>Python, Jupyter</i>	April 2024 – Present
<ul style="list-style-type: none"><li>Exploring various economic and statistical factor models to model and predict stock returns.</li><li>Visualizing and investigating anomalies to certain models, especially CAPM (Capital Asset Pricing Model).</li><li>Utilizing Python libraries such as Numpy, Pandas, sklearn, matplotlib, and statsmodels.</li></ul>	
<b>StudyBrew</b>   <i>React, JSX, CSS, Git</i>	April 2023
<ul style="list-style-type: none"><li>Created a study timer to help students stay focused for longer in a stress-free environment.</li><li>Utilized tools such as ReactJS and Bulma for frontend and Firebase for backend.</li><li>Won "Best First Time Hack" award at the Bitcamp hacakathon.</li></ul>	
<b>Word Bord</b>   <i>Javascript, HTML/CSS, Git</i>	February 2022 – April 2022
<ul style="list-style-type: none"><li>Designed and developed a daily word puzzle web game with spinning mechanics inspired by a Rubik's cube.</li><li>Built an API to fetch the daily boards and solutions, and manage the leaderboard.</li><li>Implemented an accompanying solver and puzzle generator using Java</li></ul>	