

Edward J Tan

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in edward-j-tan

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EDUCATION

- **University of Rochester**

BS in Computer Science

Sept. 2021 to May 2025

- **Relevant Coursework:** Artificial Intelligence, Computer Organization, Storage Systems, Cloud Infrastructure Data Structures and Algorithms, Database System, Machine Learning, Web Programming

EXPERIENCE

- **Peking University**

Software Engineer Intern (Computer Vision Research)

Beijing, China

May 2024 to Aug. 2024

- Collaborated with a team of 3 to develop an open-source library for interactive 3D visualization in Python
- Designed and implemented a web-based 3D rendering tool in Three.js to visualize Gaussian splat cloud, improved research efficiency by 40% by visualizing machine learning models results in web interface
- Optimized a 3D visualization machine learning model, achieving 15% faster processing speed
- Maintained a published application backend in Django, saving 10% of memory used for users

- **University of Rochester**

Front-end Developer

Rochester, NY, USA

Sept. 2023 to May 2024

- Designed a website for University of Rochester Ink and Wash painting club, improved click-through rate by 25%, and increased new club membership by 30%
- Reconstructed the original website using React and Tailwind CSS, increased code readability and modifiability for future development
- Deployed and maintained the website using Github pages, saving 90% of original planned cost in hosting

- **University of Rochester**

Teaching Assistant (CSC 172, Data Structures and Algorithms)

Rochester, NY, USA

Jan. 2023 to May 2024

- Led recitations and office hours supporting 100+ students in Java algorithm design and programming class

PROJECTS

- **LeetCode Stats Analyzer**

Feb. 2024

- Developed a web application that fetches Leetcode api to track user's progress and statistics
- Deployed on University of Rochester server, allowing students to compare their progress with peers

- **Light-weight AI Reversi Game**

Dec. 2023

- Wrote a two-role reversi game with AI agent from scratch in Python in less than 500 lines of code
- Implemented Minimax algorithm in a one-layer convolutional neural network to make the AI agent

- **Player Skill Prediction in League of Legends**

June 2023

- Led a Python machine learning project that provides predictive analytics based on automated data scraping, achieved 80% accuracy in predicting player future skill level in League of Legends

TECHNOLOGIES

- **Languages:** Python, Java, JavaScript, C, Swift, SQL, R, HTML, CSS

- **Software & Tools:** Git, Vim, Visual Studio Code, Jupyter Notebook, LaTeX, Microsoft Office, Unix Commands

- **Domains:** Web Development, Ranking, Machine Learning, Computer Vision, Distributed Systems