

Eddy Jiang

XXX | XXX | eddyjiang.com | github.com/eddysfc

EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

Bachelor of Science with James Scholar Honors
Major in Computer Science at the Grainger College of Engineering

Urbana, IL
August 2024 – Expected May 2027
GPA 4.00/4.00 (Dean's List)

EXPERIENCE

SIGPWNY: CYBERSECURITY SPECIAL INTEREST GROUP AT ACM@UIUC

Infrastructure Team SWE

Urbana, IL
October 2024 – Current

- Developing a competition highlights page for the club's website using the Astro SSG; designing a dynamic Zod schema for data storage, focusing on type safety, extensibility, and maintainability.
- Constructed containerized web challenges for the annual Fall CTF competition, leveraging Docker and GitHub PR/branch workflows to effectively collaborate with teammates and enhance the event's technical infrastructure.

ALPHARESUME: AI-POWERED RESUME GENERATOR AND INTERVIEW PREP

Junior Full-Stack Developer Intern

Beijing, China
May 2024 – August 2024

- Leveraged the MERN stack to build a dynamic web application; developed reusable front-end components with React and TailwindCSS; maintained a scalable backend API using Express and Node.js.
- Optimized front-end performance by conducting code reviews that reduced overhead and eliminated redundant DOM re-renders, resulting in an 11% improvement in page load times.
- Spearheaded the development of an OCR-based feature using PyTesseract that extracts personal data from uploaded resumes, reducing mock interview setup time by 2 minutes.

ENVIRONMENTAL, SOCIAL, GOVERNANCE INVESTING TEAM

Research and Development Intern

Remote
June 2023 – September 2023

- Built a Python web scraper using the BeautifulSoup and Requests libraries to compile a dataset of 500 news articles on companies' ESG impacts.
- Designed and tested 10 prompts of varying specificity to evaluate how prompt engineering affects GPT-3.5 Turbo's ability to identify and rate a company's ESG impact based on provided news articles.
- Automated prompt execution and response formatting using the OpenAI API to streamline testing.
- Employed GPT-3.5 Turbo to benchmark LLM-generated ESG scores against ground truth human ratings, quantifying the effect of input specificity on output quality.

RESEARCH PUBLICATION

JOURNAL OF STUDENT RESEARCH VOL. 12 NO. 2

May 2023

Publication Title: Convolutional Neural Network Approach to Classifying the CIFAR-10 Dataset

Keywords: Convolutional Neural Network (CNN), Image Classification, Machine Learning, Supervised Learning

Link to Paper: <https://doi.org/10.47611/jsrhs.v12i2.4388> (300 downloads, 3 citations, 2.41 field citation ratio)

- Evaluated the effectiveness of CNNs for image classification of low-resolution images from the CIFAR-10 dataset.
- Constructed heat-mapped confusion matrices, classification reports, and accuracy/loss plots using data visualization libraries like Matplotlib and Seaborn.
- Analyzed effects of data summarization from convolutional and pooling layers on overfitting between similar classes.

TECHNICAL SKILLS

Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Probability and Statistics for Computer Science, Computational Linear Algebra, Discrete Structures, Multivariable Calculus

Programming Languages: Python, MATLAB, R, JavaScript, TypeScript, C++ (CMake), C, Java

Web Development: MongoDB (Mongoose), Express.js, React, Node.js, TypeScript, JavaScript, Astro, Tailwind CSS, HTML, PHP, SQL (MySQL)

Python Libraries: Tensorflow, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, Selenium, PyTesseract

Developer Tools: Git, Docker, Unix CLI, OpenAI API, Jupyter Notebook, VS Code, PyCharm, Venv/Anaconda, Figma