

Chih-Yang(Young) Lin

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EDUCATION

Washington University in St. Louis

St. Louis, MO

Bachelor of Science in Computer Science, Financial Engineering

Aug 2020 – December 2023

- **GPA:** 4.0/4.0
- **Awards:** Dean's List (6/6 semesters), Antoinette Frances Dames Award
- **Relevant Coursework:** Data Structures and Algorithms, Analysis of Algorithms, Object-Oriented Design, Full-Stack Development, Machine Learning, Applied Machine Learning, Statistics in Financial Engineering

EXPERIENCE

Amazon Web Services

Sunnyvale, CA

Software Development Engineer Internship

May 2023 – Aug 2023

- Worked on a developing product in AWS's low code-no code space that would empower developers to effortlessly design and build sophisticated apps with database-like capabilities using an intuitive visual editor
- Led the end-to-end development of a highly scalable app duplication feature, while also orchestrating efforts to ensure its seamless integration into a production environment
- Designed and implemented a full-stack API for the duplicate feature that leverages TypeScript as the backend to access DynamoDB tables, while utilizing React as the frontend framework
- Developed and executed end-to-end test using Cypress to expand test coverage, while also implementing Amazon CloudWatch metric alarms to increase reliability and stability

Washington University Computer Security Laboratory

St. Louis, MO

Research Internship

Jan 2022 – Aug 2022

- Developed a web scraper for App Store reviews with Python by leveraging the app-store-scraper API, generating over 2 million in reviews that was used to conduct NLP on users' privacy concerns with mobile apps
- Created MySQL tables for app reviews across different categories by utilizing Pandas dataframe to format the reviews, pre-process the reviews, and extract the reviews that contained security/privacy keywords
- Deployed multiple speech recognition systems (SRS) by setting up the Conda environment and adapting the original Python scripts to extract decision results of the input audio, enabling the lab to test its adversarial attacks

Washington University McKelvey School of Engineering

St. Louis, MO

Teaching Assistant

Sep 2021 – May 2023

- Served as the teaching assistant for the data structures/algorithms and machine learning course
- Instructed a group of 20 students in completing in-class assignments by facilitating discussions and assisting them in grasping concepts like run-time complexity, greedy/sorting algorithms, and data structures in Java
- Hosted weekly office hours that provided one-on-one assistance on concept review and code debugging

PROJECTS

E-commerce Website | *JavaScript, React, Django, MySQL*

March 2022 – May 2022

- Built a full-stack e-commerce website by integrating React and Django that supports top products carousel, product reviews, product search, full-featured shopping cart, order management, and a checkout process
- Leveraged Django as the backend to create an application that connected with MySQL to store product/user information

Earnings Analyzer | *Python, Pandas, Yahoo Finance API*

June 2023 – Present

- Constructed a backend API that generates concise tables of key financial metrics and historical price effects of earnings report on stocks, providing essential information for pre-earnings forecast
- Leveraged multiple stock market API and web scraping techniques to collect key financial data of stocks, while utilizing Python and Pandas to compute and organize the metrics and price impact of the earnings report

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, R, C++, HTML/CSS, SQL

Frameworks/Libraries: React, Node.js, Django, Pandas, NumPy, Scikit-learn, Matplotlib

Developer Tools: Linux, Git, AWS, Conda, MySQL, Cypress, VS Code, IntelliJ