

# Lawrence Lim

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## EDUCATION

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### New York University

Bachelor's Degree, Computer Science Major

Expected Completion: Sep 2021 - May 2025

*Shanghai, China*

- Cumulative GPA - 3.83/4.00; Major GPA - 3.85/4.00

### SJTU-THU-PKU Summer Program

Bachelor's Degree, Computer Science Major

July 2023

*Shanghai, China*

- Course List: Cryptography and Blockchain, Artificial Intelligence

### Tenaflly High School

High School Diploma, AP Scholar with Honors

Sep 2016 - June 2020

*Tenaflly, New Jersey*

## WORK EXPERIENCE

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### Software Engineer Intern

Knn3 – User-centric DataFi solution for d/Apps and smart contracts

Mar 2023 - Present

*(Remote) Singapore*

- Prototyped and researched Natural Language (NL) to SQL conversion methods leveraging LLM prompt chaining
- Built testing benchmark to evaluate the accuracy, speed, and cost of methods for generating SQL from NL
- Significantly improved benchmark performance by leveraging sentence transformers, Redis Cosine similarity search
- Containerized application with Docker, automated building, testing, and deployment to AWS with Jenkins CI/CD

### Technology Consultant Intern

Jika.io – Social community platform built for investors

Sep 2022 - May 2023

*(Remote) Tel Aviv, Israel*

- Constructed MongoDB to Google Bigquery data pipeline. Enabled data analysis and visualization with SQL
- Played primary role in designing relational schema and orchestrating each step of the ETL process

### Blockchain Research Analyst

TokenInsight

May 2022 - Sep 2022

*Shanghai, China*

- Research topics include zero-knowledge-proof rollups, optimistic rollups, and Ethereum's development timeline.
- Wrote technical articles on various blockchain protocols and architecture. Also researched blockchain valuation and risk assessment. Served as core member of TokenInsight's research team.

## PROJECTS

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### Airline Booking System – Full Stack Python Flask Application [View Project](#)

- Leveraged Flask, MySQL database, and Bootstrap CSS to create an airline booking system inspired by Expedia.com
- Utilizes functions such as session tokens, user password hashing, and SQL triggers. Deployed on Railway.app

### Decentralized Crowd Funding – Full Stack Solidity and JavaScript d/App [View Project](#)

- Full stack Ethereum crowd funding app with Solidity and Hardhat for backend, and HTML/CSS/JS for frontend.
- Uses Chainlink Price Feeds for off-chain data with MetaMask and Ethereum Provider API for user payments.

### MeChat – Python GUI Desktop Chat App [View Project](#)

- Utilizes web sockets for communication, end-to-end RSI encryption for security, and client-side multi-threading.
- Uses Tkinter Python library used for the GUI. Project currently used as a showcase in Intro to Comp. Sci class

## RESEARCH

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### Packet Trace Anonymization

NYU Shanghai Computer Science Department - Advised by Prof. Guyue (Grace) Liu

Dec 2022 - May 2023

*Shanghai, China*

- Built, modified, and tested network packet anonymization tools. Analyzed and compared their TCP/IP anonymization policies by conducting literature review, analyzing source code, and reading documentation.
- Using methodologies from tcpdpriv, tcpmcpub, and tcpdpriv to develop new secure packet anonymizer in C.

## Crypto Asset Rating Methodology Framework

May 2022 - Jan 2023

Dean's Undergraduate Research Fund - Advised by Prof. Jiding Zhang

Shanghai, China

- Investigated how crypto rating methodologies can be improved through a holistic overview of the project, conducting data analysis on off chain metrics and on chain data to derive a performance rating, and using smart contract code auditing to determine a security rating.
- Developed smart contract applications and wrote tests with code coverage as a part of understanding full stack smart contract development and security practices.

## LEADERSHIP POSITIONS

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### President

May 2022 - May 2023

Undergraduate Business Association (UBA) @ NYU Shanghai

Shanghai, China

- Managed a club of 80+ members that held workshop, speaker series, and mentorship events on a weekly basis.
- Hosted inaugural UBA Spring Business Competition with data analysis, investing, and marketing tracks
- Our organization's impact on campus was recognized with the "Trailblazer" award, given to the most innovative and pioneering student organization in NYU Shanghai.

### Orientation Ambassador Captain

Mar 2022 - Sep 2022

New Student Programs @ NYU Shanghai

Shanghai, China

- Led a team of eight Orientation Ambassadors over four months to plan and host a Game Night during Freshmen Orientation Week, one of the four major OA organized events.
- Primarily delegated tasks, managed budget, and coordinated with Student Life staff to achieve a successful event.

### Class of 2025 President

Sep 2021 - May 2022

Student Government @ NYU Shanghai

Shanghai, China

- Led the organization and planning of NYU Shanghai's week-long Spirit Week event and received over 100+ registered participants on kick-off day.
- Worked with the Class Engagement Board to plan and host a week of online events to support NYU Shanghai students during the 2022 Shanghai Lockdown.
- Served as the voice of my class and aggregated questions and concerns from the student body, and presented them, in the form of a report, at weekly student government meetings.

## TECHNICAL SKILLS

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**Programming Languages:** Python (fluent), SQL (fluent), HTML/CSS (proficient), Solidity (proficient), C (prior experience), Javascript (prior experience), Shell (proficient), Lua (prior experience)

**Frameworks and Libraries:** FastAPI, LangChain, Pytest, Flask, Hardhat, Pandas, Matplotlib, Numpy

**Developer Tools:** Git and Github, Docker, Jenkins, Debian Linux, venv/Poetry, Vim, Vscode

**Cloud/Databases:** MySQL, Redis, Redis Stack Server, Google Cloud BigQuery

**Coursework:** Databases, Computer Architecture, Data Structures, Discrete Math, Linear Algebra

## HONORS AND AWARDS

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- **Leadership in Action:** Outstanding individual leadership in NYUSH student organizations April 2023
- **Recognition Award:** Excellent academic performance and contributions to the NYUSH community July 2022

## HOBBIES AND INTERESTS

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- **Hobbies:** Lifelong athlete, avid gym-goer, soccer player, April 2023
- **Personal Interests:** Neovim and Tmux enjoyer July 2022
- **Re of Interest:** Blockchain Development, Zero Knowledge Proof Applications, Backend Web Development