

# Lawrence Lim

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## EDUCATION

### 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

## WORK EXPERIENCE

### 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

## PROJECTS

### 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

## LEADERSHIP POSITIONS

- **President**, Undergraduate Business Association @ NYUSH Sep 2022 - June 2023
- **Director of Tech Consulting**, TAMID Tech Track @ NYUSH Feb 2023 - May 2023
- **Team Captain**, NYUSH Varsity Men's Soccer Feb 2022 - May 2023
- **Student Class President**, NYUSH Student Government Sep 2021 - May 2022

## TECHNICAL SKILLS AND INTERESTS

**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

**Areas of Interest:** Blockchain Development, Zero Knowledge Proof Applications, Backend Web Development

## HONORS AND AWARDS

- **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