

# Lawrence Lim

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## EDUCATION

### New York University

Bachelor's Degree, Computer Science Major

Expected Completion: Sep 2021 - May 2025

*New York, NY*

- 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*

- Developed chat agent app with web search, web scraping, and full-text search enhanced with vector similarity
- Implemented hybrid search system ranking search results and utilizing sparse and dense vector representations
- Significantly improved information retrieval performance by leveraging concurrent search and caching
- Deployed to staging 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*

- Tripled data analyst work efficiency by constructing MongoDB to Google Bigquery data pipeline with BI frontend
- Architected relational database, employing third normal form for optimal schema design and query efficiency.

## PROJECTS

### HealthFirstAI Prototype – AI Powered Health and Fitness Coach [View Project](#)

- Led a backend dev team of 3 (utilizing DVCS) to collaboratively build the MVP backend of our AI health coach
- Designed nutrition and food recommendation algorithm leveraging vector cosine and euclidean distance metrics
- Researched and tested ReAct, Plan-and-Execute, and Tree-of-Thoughts patterns for optimal chat agent design

### Airline Booking System – Full Stack Python Web App [View Project](#)

- Engineered an airline booking system, inspired by Expedia.com, leveraging Flask, MySQL database, and Bootstrap.
- Employed advanced features including user session tokens, secure user password hashing, and SQL triggers

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

- GoFundMe inspired app providing users with intermediary-free campaign creation, contribution, and withdrawal
- Integrated real-time data with Chainlink Price Feeds, user payments via MetaMask and Ethereum Provider API

## LEADERSHIP & ORGANIZATIONS

- **CEO & Founder**, HealthFirstAI - AI Powered Personal Coaching

Jul 2023 - Present

- **Member**, Microsoft for Startups Founders Hub

Aug 2023 - Present

- **President**, Undergraduate Business Association @ NYUSH

Sep 2022 - June 2023

- **Director of Tech Consulting**, TAMID (Tech Track) @ NYUSH

Feb 2023 - May 2023

## TECHNICAL SKILLS AND INTERESTS

**Programming Languages:** Python (fluent), SQL (fluent), HTML/CSS (proficient), Node.js (proficient), C (prior experience), Solidity (proficient), Shell (proficient), Lua (prior experience), Rust (learning)

**Cloud/Databases:** PostgreSQL, MySQL, Redis, pgvector, Pinecone, Elastic Search (OpenSearch, Kibana)

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

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

**Areas of Interest:** Blockchain Development, Zero Knowledge Proof Applications, Artificial Intelligence

## 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