

# 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 - 3.84/4.00; Major GPA - 3.85/4.00
- Coursework: Cryptocurrency & Decentralized Ledgers (Graduate), DevOps & Agile Methodologies, Basic Algorithms, Databases, Computer Architecture, Data Structures, Discrete Math, Linear Algebra, Multivariable Calculus
- Honors & Awards: Dean's Honor List (2021 - 2023), Leadership in Action Award (2023), Recognition Award (2022), Merit Scholarship Recipient (2021)

## WORK EXPERIENCE

### Software Engineer Intern

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

Mar 2023 - Present

*(Remote) Singapore*

- Developed LLM chat 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 LLM 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

- **General Member**, NYU Blockchain and Fintech Sep 2023 - Present
- **Member**, Microsoft for Startups Founders Hub Aug 2023 - Present
- **CEO & Founder**, HealthFirstAI - AI Powered Personal Coaching Jul 2023 - Present
- **President**, Undergraduate Business Association @ NYU Shanghai Sep 2022 - June 2023
- **Co-Director of Tech Consulting**, TAMID (Tech Track) @ NYU Shanghai 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

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