

# Lawrence Lim

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## EDUCATION

### New York University

Bachelor's Degree, Computer Science Major

Expected Completion: May 2025

*New York, NY*

- Cumulative GPA - 3.8/4.0; Major GPA - 3.9/4.0
- Coursework: Cryptocurrencies & Decentralized Ledgers (Graduate), DevOps & Agile Methodologies (Graduate), Algorithms, Databases, Computer Architecture, Data Structures, Discrete Math, Linear Algebra, Calculus III
- Honors & Awards: Leadership in Action Award (2023), Student Organization Trailblazer Award (2023), Recognition Award (2022), Dean's Undergraduate Research Fund Recipient (2022), Dean's Honor List (2021 - 2023)

## WORK EXPERIENCE

### Software Engineer Intern

May 2023 - Aug 2023

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

*Singapore*

- Developed LLM chat API with features such as interactive web search, web scraping, and document retrieval
- Built FastAPI backend with MySQL database, SQLAlchemy ORM, and Pinecone for document similarity search
- Implemented web scraping with BeautifulSoup and Selenium, and chat message history caching with Redis
- Wrote unit tests with Pytest achieving 95% code coverage, and documented API with Swagger and mkdocs
- Containerized microservice with Docker, automated building and deployment to AWS with Jenkins CI/CD

### Data Engineering Intern

Feb 2023 - May 2023

Jika.io – Social community platform built for investors

*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.
- Analyzed NoSQL database schema and wrote SQL scripts to clean, transform, and insert data into relational tables

## PROJECTS

### NYU Blockchain & Fintech Smart Contract Poker – Secure Trustless Online Poker (Ongoing)

- Developing game initiation, action (check/bet/fold), and turn history proof verification on EVM smart contracts
- Implementing Mental Poker cryptography protocol to enable trustless and provably secure shuffling and dealing
- Using digital signatures, verifiable randomness, hash functions, and commutative encryption to ensure fairness
- Employing Python web socket server and test client to enable real-time communication between players and dealer

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

- Built personal coach chat bot that provides health and fitness advice to users based on their goals and profile
- Designed personalized food recommendation algorithm comparing nutrition vector cosine similarity and distance
- Researched and tested ReAct, Plan-and-Execute, and Tree-of-Thoughts patterns for optimal LLM agent design

## LEADERSHIP & ORGANIZATIONS

- **Development Team**, NYU Blockchain and Fintech Oct 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
- **Co-Captain**, Men's Varsity Soccer @ NYU Shanghai Mar 2022 - May 2023

## TECHNICAL SKILLS AND INTERESTS

**Programming Languages:** Python, SQL, Solidity, C, HTML/CSS, JavaScript, Java, JavaScript, Shell, Lua, Rust

**Cloud/Databases:** PostgreSQL, MySQL, Redis, Pinecone, Elastic Search (ELK Stack), Google BigQuery, pgvector

**Developer Tools:** Git, Github, Docker, Kubernetes, Terraform, VMware, Jenkins, Github Actions, Linux

**Areas of Interest:** Blockchain, Cryptography, Artificial Intelligence, Backend Web Development