Lawrence Lim

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EDUCATION

New York University — Expected Completion: May 2025
Bachelor's Degree, Computer Science Major — *New York, NY*

- Cumulative GPA - 3.84/4.00; Major GPA - 3.85/4.00
- 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 — *(Remote) Singapore*

- Developed LLM chat app REST API with features such as web search, web scraping, and document vector search
- Significantly improved information retrieval performance by leveraging asynchronous search and caching
- Utilized Redis and OpenSearch for efficient storage and retrieval of user data and query results
- Deployed to staging with Docker, automated building, testing, and deployment to AWS with Jenkins CI/CD

Data Engineering Intern — Sep 2022 - May 2023
Jika.io – Social community platform built for investors — *(Remote) Tel Aviv, Isreal*

- 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

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 communative encryption to ensure fairness
- Employing web socket client and server to enable real-time communication between players and dealer

HealthFirstAI Prototype – AI Powered Health and Fitness Coach View Project

- Built health coach chat bot capable of providing health and fitness advice to users based on their goals and profile
- Designed personalized 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

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 (fluent), SQL (fluent), Solidity (proficient), HTML/CSS (proficient), JavaScript (proficient), C (prior experience), 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, Kubernetes
Areas of Interest: Blockchain Development, Zero Knowledge Proof Applications, Artificial Intelligence