Lawrence Lim

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EDUCATION

New York University   Expected Completion: Sep 2021 - May 2025
Bachelor's Degree, Computer Science Major   *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   Mar 2023 - Present
Knn3 – User-centric DataFi solution for d/Apps and smart contracts   *(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   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

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