

# XINHAI LENG

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## EDUCATION

### New York University

Master's, Computer Engineering

September 2023 - May 2025

GPA: 3.65

- Software Engineer, Operating System, Distributed System, Internet Architecture, TCP/IP, Data Algorithm and Structure, Machine Learning, Cloud Computing, Deep Learning, Cyber Security

### University of California - San Diego

Bachelor's, Computer Science

September 2019 - June 2023

- Software Engineer, Web Development, Machine Learning, Data Algorithm and Structure, Computer Network, Object-Oriented-Design, System Architecture, System Programming

## PROFESSIONAL EXPERIENCE

### Oklahoma City Thunder (NBA)

Software Engineer Intern

Remote

January 2025 – Present

- Developing full-stack tools for **real-time, data-driven** basketball player evaluation using **Django (Python)** and **Angular (TypeScript)**, enhancing coaching staff's ability to analyze performance metrics and support strategic decision-making.
- Designed and implemented a **deep link URL-sharing feature** to preserve user-defined dashboard states (filters, visualizations), reducing the time to replicate complex analytical views by 35% for cross-functional teams.
- Architected a **collaborative analytics platform** using **WebSocket** for real-time chat-based staff discussions and **PostgreSQL** for user configuration/query set management, integrated with **AWS S3** for scalable storage of multimedia performance data; implemented live user activity tracking, dynamically updating dashboards, and **role-based access control (RBAC)** to ensure compliance with organizational data policies.
- Implemented **Github Action** for **CI/CD** to automate build processes, data processing, cleaning, and daily report generation.
- Partnered with data teams to define performance benchmarks (e.g., efficiency thresholds) and translate basketball requirements into scalable tools, aligning with organizational KPIs.

### BreatheIT

Software Engineer Intern

Remote

June 2024 – December 2024

- Software Engineer Intern at BreatheIT Solutions, developing innovative lifestyle management technologies to enhance well-being.
- Integrated front-end and back-end components with **JavaScript**, **React**, and **NodeJS**, ensuring optimal functionality.
- Utilized **React Hooks** to manage component state and lifecycle in functional components, employing **useState**, **useEffect**, and other hooks to improve code readability and maintainability.
- Designed and refined database schemas in **PostgreSQL** for dashboard features to enable visualization of customer real-time lifestyle status
- Designed and implemented **Health Score Report** based on customer health metadata with **JavaScript/HTML/CSS**, providing analysis and aggregate reports to monitor customer lifestyle status and generate healthy advice.
- Developed **RESTful APIs** for Health service with **EXPRESS** and **NodeJS**, integrating with **PostgreSQL** to store lifestyle metadata and customer real-time lifestyle status.
- Conducted unit tests to keep 80% code coverage with **Mocha** and performed integration tests to ensure code quality and functionality.
- Integrated with **ChatGPT3.5 API** to generate healthy advice based on lifestyle score.

### Oin Auto

Software Engineer Intern

Remote

January 2024 - March 2024

- Developed a mobile application using **Flutter** that allows users to view their vehicle status and access live news feeds from the vehicle industry.
- Improved **user authentication** efficiency by 20% by developing a multi-provider authentication system using Flutter.
- Boosted application performance and user engagement of 30% by implementing comprehensive event tracking with **Firebase Analytics**.
- Utilized **agile methodologies** for project management, organized sprint planning, backlog grooming, and retrospective meetings.

## PROJECTS & OUTSIDE EXPERIENCE

### Interactive Chatting and Collaboration Platform

New York, NY, USA

October 2023 – February 2024

- Implemented real-time text/voice/video communication using **WebRTC** and **WebSocket**.

### Graphic Design SaaS Platform

New York, NY, USA

June 2024 - August 2024

- Implemented subscription management system via **Stripe** to monitor user access and ensure financial viability.
- Designed feature-complete platform incorporating an intuitive editor, authentication (Next-Auth v5), AI-driven image generation, and background removal with **stable-diffusion-3** (Replicate).

### Personal Finance Management Application

New York, NY, USA

January 2024 - March 2024

- Implemented comprehensive expense splitting system with automated email billing, similar to Splitwise.
- Developed real-time currency conversion functionality through external API integration in **Django** to enhance user interface.
- Created interactive financial dashboard utilizing **ChartJS** and **FullCalendar** for effective transaction visualization and budget management.

### Headstarter Fellowship

Software Engineer Fellow

New York, NY, USA

July 2024 - September 2024

- Completed a rigorous 7-week software engineering program, enhancing skills through practical AI projects and hackathons.
- Developed a video processing app with sentiment analysis utilizing **TensorFlow** and containerized deployment with **Docker** and **Kubernetes**.

**Skills:** Java, TypeScript, C/C++, Node.js, Python, HTML/CSS, iOS/Swift, Flutter, Pytorch, Jupyter, Next.js, AWS, Git, Maven, R, MySQL, Pandas, JavaScript, Express.js, MySQL, PHP, Angular, Django, Nextjs, MongoDB, PostgreSQL, Docker, Kubernetes, Elastic Search, Kafka, Springboot, RocketMQ