

XIAOCHEN (NIGEL) LU

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EDUCATION

New York University

New York, NY

Master of Science in Computer Science

May 2025

- Cumulative GPA: 3.88/4.0; Coursework: *Intro to Java* (Spring Boot), *Software Engineering* (scrum development), *Algorithms*, *Computer Networking*, *Network Security*, *Penetration Testing and Analysis*

New York University

New York, NY and Shanghai, China

Bachelor of Science, Data Science, minor in Computer Science

May 2023

- Cumulative GPA: 3.91/ 4.0; Magna Cum Laude; NYU Honors Scholar; Dean's List for all Years
- Coursework: *Applied Internet Technologies*, *Computer Architecture*, *Data Structures*, *Databases*, *Machine Learning*, *NLP*

SKILLS

- Technical Skills: **Python** (PyTorch, Django, OpenCV, Matplotlib), **JavaScript** (TypeScript, React, Vue, ExpressJS), **Java** (Spring Boot), **CI/CD** (Travis), **SQL** (MySQL, PostgreSQL), **Git**, **AWS EC2/EB**, **Agile Dev (scrum)**, **Slack**, **Docker**, **Kubernetes**

PROFESSIONAL EXPERIENCE

eBay Inc.

Shanghai, China

Software Engineering Intern, Cloud Infrastructure Team

Sept. 2022 – Aug. 2023

• Average-Time-to-Business (ATB) Dashboard

- Proposed and implemented a **Redux+React+Django** Average-Time-to-Business (ATB) dashboard to monitor cluster statuses and send checkout alerts, reducing crisis response time by 25% and boosted service availability from 99.14% to 99.8%

• KeyHub (Community's Encrypted Email UI for Password Exchange)

- Led the refactorization of KeyHub to conform with the latest **OpenPGP** standard and patched 60+ security vulnerabilities
- Integrated KeyHub with eBay's Cloud Console using **JS-plugin** and **Redux**, boosting productivity of over 100 infra engineers

• L7 Rule Config Automation UI

- Orchestrated an intuitive UI with auto-filling for over 85% of the fields to streamline **L7 rule** configuring process for eBay's **Kubernetes (K8s)** clusters, increasing efficiency by more than 70% and minimized potential human errors in the loop

Kaizntree Co.

New York, NY and Remote

Co-founder and CTO

Sept. 2021 – Present

• Kaizntree Small Business Management Platform

- Built a one-stop management solution for small businesses using **Vue.js**, **Django Rest Framework**, **PostgreSQL**, and **Heroku CI/CD**, empowering 100+ happy customers by reducing time spent on management tasks from 15 to just 2 hours per week
- 2-way integrated with 4 major sales channels using **OAuth2**, including Shopify, Square, Etsy, and Xerox, and automated stock sync across platforms, putting an end to the cumbersome manual updates and stock inconsistency on different channels
- Led Kaizntree's development team and adopted **Scrum**, **Travis CI/CD** with Heroku to minimize friction, allowing Kaizntree to address customer feedbacks under 48 hours and continuously rolling out new features weekly

• Champion of NYU Summer Launchpad & NYUxYale Startup Competition

- Won the 2023 NYU Summer Launchpad and 2023 NYUxYale Startup Competition, with a reward of \$10,000 non-dilutive funding
- Got invited to apply for Y Combinator and Techstars NYC startup accelerators, receiving mentorship from entrepreneur coaches
- Earned investment from 3 individual investors and received a total of \$50,000 investment with Kaizntree valued at 4 million

Expsoft Ltd.

Wuxi, China

Software Engineering Intern

May 2021 – Sept. 2021

- Leveraged the power of **Springboot** and **Maven** to build resilient and user-friendly auditing platforms for governments
- Secured a project from Soochow government worth \$250,000 to supply customized audit platform

RESEARCH & PROJECTS

Few-shot Segmentation with Adaptive Data Augmentation and Cross Attention

Shanghai, China

Co-authored a paper, access link [here](#)

Mar. 2022 - May 2023

- Proposed an instance-aware data augmentation strategy to improve support image diversity and reduce distribution inconsistency between query and support images in low-data regimes, boosting model performance by 3.7% in ablation studies
- Incorporated a 4-D consensus cross attention module to align query and support features, increasing accuracy by 5.4%
- Wrote 1000+ lines of code to build a scalable PyTorch codebase for few-shot segmentation research, enabling easy backbone swaps

Multimodal Online Student Engagement Dataset

Abu Dhabi, UAE & Remote

Co-authored a paper and published on **Nuclear Physics B** journal

May 2021 – Mar. 2022

- Created a 17GB labeled engagement detection dataset of 300+ participants in online learning settings
- Established a CNN-RNN hybrid baseline model to process spatial and temporal signals simultaneously

Evaluating Parameter-efficient Tuning Methods in Low-data Regimes

New York, NY

Research advised by Professor Sam Bowman on param-efficient tuning in NLP

Sept. 2021 – Dec. 2021

- Reproduced four SOTA parameter-efficient tuning methods based on HuggingFace libraries and concluded with a research paper
- Evaluated the performance of these methods on various NLP tasks (e.g., sentiment analysis, Q&A) with various train/test partitions