

XIAOCHEN (NIGEL) LU

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EDUCATION

New York University, Tandon School of Engineering

New York, NY

Master of Science in Computer Science (Cumulative GPA: 3.88/4.0)

May 2025

Relevant Coursework: Intro to Java (Spring Boot), Software Engineering (Django + scrum development), Algorithms, Computer Networking, Network Security, Penetration Testing and Analysis

New York University, NYU Shanghai

New York, NY and Shanghai, China

Bachelor of Science, Data Science, minor in Computer Science (Cumulative GPA: 3.91/ 4.0)

May 2023

Magna Cum Laude; NYU Honors Scholar; Dean's List 2019-2023

Relevant Coursework: Applied Internet Technologies, Computer Architecture (Objective C), Data Structures (OOP), Databases, Machine Learning (TensorFlow), Natural Language Processing (PyTorch)

SKILLS

Coding Languages: Python, JavaScript, TypeScript, Java, SQL, No-SQL, R, Objective C, Haskell, Common Lisp

Software Tools: React.js, Vue.js, Babel, Yarn/Npm, Django, Express.js, Spring Boot, Maven, JPA, Thymeleaf, Git, Docker, Kubernetes, PostgreSQL, MySQL, MongoDB, pgAdmin, MySQL Workbench, PyTorch, Tableau, Pandas, Scikit-learn, NumPy

Other Tools: Circle/Travis CI (CI/CD), AWS EC2/EB/RDS, Agile Dev, Figma Prototyping, Linux/UNIX, Slack, Office/Google Suite

PROFESSIONAL EXPERIENCE

eBay Inc., Software Engineering Intern – Cloud Infrastructure Team, (Shanghai, China)

Sept. 2022 – Aug. 2023

- Innovated an Average-Time-to-Business dashboard using **Redux**, **React.js**, and **Django** to monitor cluster statuses and prepared **SQL queries for data aggregation** and **PostgreSQL** for storing alert thresholds, boosting service availability from 98.74% to 99.78%
- Managed to integrate eBay's KeyHub (eBay's in-house encrypted password exchange platform) to eBay's Cloud Console using **TypeScript**, **JS-plugin**, and **Redux**, streamlining the encrypted password exchange process for 100+ eBay infrastructure engineers
- Secured eBay's KeyHub with the latest **OpenPGP** standard and **AES encryption** for database-stored keys, patching 60+ vulnerabilities
- Orchestrated an intuitive UI with auto-filling for over 85% of the fields to streamline the **L7 rule** configuring process for eBay's **Kubernetes (K8s)** clusters, increasing efficiency by more than 70% and minimizing potential human errors in the loop

Kaizntree Co., Co-founder and CTO, (New York, NY and Remote)

Sept. 2021 – Feb. 2024

- Built a one-stop management solution for small businesses using **Vue.js**, **Django REST framework**, and **PostgreSQL**, earning 100+ happy customers by reducing their time spent on management tasks from 15 to just 2 hours per week
- Collected and analyzed 1000+ user feedback and adopted **Scrum Development**, **Circle CI/CD** with **Heroku** to minimize friction throughout the software development lifecycle (SDLC), enabling Kaizntree to address platform BUGs under 24 hours
- Spearheaded the **2-way integration** between Kaizntree and 4 major sales channels using **OAuth2** (Shopify, Square, Etsy, and Xerox) and automated stock & order sync across platforms, putting an end to manual updates and stock inconsistency on different channels
- Incorporated **database normalization techniques** to optimize query performance and ensure data consistency across platforms
- Won the 2023 NYU Summer Launchpad and 2023 NYUxYale Startup Competition, with a reward of \$15,000 non-dilutive funding
- Earned investment from 3 individual investors and received a total of \$250,000 investment with Kaizntree valued at 5 million

Expsoft LLC., Software Engineering Intern, (Wuxi, China)

May 2021 – Sept. 2021

- Leveraged the power of **Spring Boot**, **Thymeleaf**, **JPA**, **Maven**, and **MySQL's stored procedures/triggers** to build highly automated and customizable online auditing platforms for governments
- Secured a project from the Soochow government worth \$400,000 to supply a customized audit platform

RESEARCH & PROJECTS

Parkrowd NYC, a Crowd-sourced Parking Info Sharing Platform based on NYC Open Data (repo [link](#))

Sept. 2023 – Dec. 2023

- Conceptualized a parking info-sharing platform by listing **MVP**, **MLP**, and API documentation, and using **Figma prototyping**
- Implemented Parkrowd as a **Django RESTful app** integrated with **Google Maps API** through **ZenHub Scrum** with a team of 5
- Employed **Travis CI**, **AWS Elasticbeanstalk**, **AWS RDS**, and **Coveralls.io** to build a seamless CI/CD pipeline

Rate My Professor, a redesigned Single-page App for Students to Upload/View Professor Ratings (repo [link](#))

Sept. 2023 – Dec. 2023

- Coordinated efficient full-stack development using scrum sprints and backlogs, allowing my team of 2 to roll out the app in 2 months
- Utilized Maven, Spring Boot with **JPA**, **Spring Security**, and **multi-threading** to build a robust, highly concurrency-capable backend

Few-shot Segmentation with Adaptive Data Augmentation and Cross Attention ([link](#) to paper on arXiv)

Mar. 2022 - May 2023

- Proposed an instance-aware data augmentation strategy to improve support image diversity and reduce distribution inconsistency
- Incorporated a 4-D consensus cross-attention module to align query and support features, increasing accuracy by 5.4%