

# 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, R, Objective C

**Software Tools:** React.js, Vue.js, Babel, Yarn/Npm, Django, Express.js, Spring Boot, Maven, JPA, Thymeleaf, Git, Docker, Kubernetes, PostgreSQL, MySQL, PyTorch, TensorFlow, Chart.js, Matplotlib, OpenCV, Pandas, SciPy, 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 (ATB) dashboard using **Redux**, **React.js**, and **Spring Boot** to monitor cluster statuses and send checkout alerts, reducing crisis response time by 25% and boosting service availability from 99.14% to 99.8%
- 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
- Upgraded eBay's KeyHub to conform with the latest **OpenPGP** standard and Antd V5.0, patching 60+ security 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
- Led and trained Kaizntree's 4-man scrum team, collaboratively rolling out new features weekly with thorough code documentation
- 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**, and **Maven** to build robust, user-friendly, and highly 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%