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 Shanghai   **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 (Srping Boot), CI/CD (Travis), SQL (MySQL, **PostgreSQL**), **Git**, AWS EC2/EB**,** Agile Dev (**Scrum**), **Docker**, Kubernetes

PROFESSIONAL EXPERIENCE

eBay Inc.   **Shanghai, China**
Software Engineering Intern, Cloud Infrastructure Team   **Sept. 2022 – Aug. 2023**
- **Averge-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 – Feb. 2024**
- **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

Parkrowd NYC (repo: https://github.com/NigelLu/Parkrowd)   **New York, NY**
Parking Made Easy - Crowd-sourced Parking Info Sharing Platform based off of NYC Open Data   **Sept. 2023 – Dec. 2023**
- Conceptualized a parking info sharing platform by listing MVP, MLP, API documentations, and using Figma prototyping
- Implemented Parkrowd as a Django RESTful app integrated with Google Maps API through Scrum and ZenHub with a team of 5

Rate My Professor (repo: https://github.com/NigelLu/RateMyProfessor)   **New York, NY**
Rate My Professor redesigned as a SPA (single page application) powered by Spring Boot and React   **Sept. 2023 – Dec. 2023**
- Coordinated efficient full-stack development using sprints and backlogs, allowing my team of 2 to roll out the app in under 2 months
- Utilized Java Spring Boot, Maven with JPA, Spring Security,multi-threading to build a robust, high-concurrency-capable backend

Few-shot Segmentation with Adaptive Data Augmentation and Cross Attention (link)   **Shanghai, China**
Co-authored a paper and submitted to CVPR 2023   **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%