XIAOCHEN (NIGEL) LU

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EDUCATION

New York University — **New York, NY**
Master of Science in Computer Science — **May 2025**
- 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: **JavaScript** (TypeScript, React, Vue, ExpressJS, NextJS), **Python** (PyTorch, Django, OpenCV, Matplotlib), **Java** (Srping Boot, multi-threading), **C**, **SQL** (MySQL, PostgreSQL), **R** (Statistics), **Bash Script**, **JetBrains IDEs**, **VSCode**

PROFESSIONAL EXPERIENCE

eBay Inc. — **Shanghai, China**
Software Engineering Intern, Cloud Infrastructure Team — **Sept. 2022 – Aug. 2023**
- **Averge-Time-to-Business (ATB) Dashboard**
  - Proposed, conceptualized, and implemented a Redux + React+Django Average-Time-to-Business (ATB) dashboard to monitor cluster statuses and send 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 Full-stack Engineer — **Sept. 2021 – Present**
- **Kaizntree Small Business Management Platform**
  - Built a one-stop management solution for small businesses using Vue, Django Rest Framework, PostgreSQL, and Heroku, 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 OAuth, 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 pushing new features bi-weekly
- **NYU Summer Launchpad & NYUxYale Startup Competition**
  - Won the 2023 NYU Summer Launchpad and 2023 NYUxYale Startup Competition, receiving a $10,000 non-dilutive funding
  - Got invited to apply for Y Combinator and Techstars NYC startup accelerators, receiving 1-on-1 mentorship with established 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 — **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 App with a team of 5 through Scrum and ZenHub (repo: https://github.com/NigelLu/Parkrowd)

Few-shot Segmentation with Adaptive Data Augmentation and Cross Attention — **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%

Multimodal Online Student Engagement Dataset — **Abu Dhabi, UAE**
Co-authored a paper and published on **Nuclear Physics B** journal — **May 2021 – Mar. 2022**
- Created a 17GB engagement detection dataset of 300+ participants in online learning settings and a CNN-RNN hybrid baseline

ADDITIONAL INFO

- Interests: Cycling, Cooking, Landscape Photography, Hiking, Civil Aviation and Consumer Electronics Enthusiast