XIAOCHEN (NIGEL) LU

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EDUCATION

New York University   Sep 2023 – May 2025

M.S. in Computer Science, recipient of a prestigious, merit-based scholarship of $6,000/year.

New York University   Sep 2019 – May 2023

*B.S. in **Data Science**, double major in **Finance**, with a minor in **Computer Science***.
- GPA: *3.91/4.0* cumulative; *3.96/4.0* Data Science major.
- Honors & awards: *Magna cum Laude*; *NYU Honors Scholar*.
- Computer vision researcher focusing on semantic segmentation in few-shot learning scenarios.

Relevant courses (B.S. and M.S.): *Applied Internet Technologies* (full-stack dev), *Data Structures*, *Databases*, *Computer Architecture*, *Algorithms*, *Software Engineering* (agile dev), *Intro to Java*.

SKILLS

- Lingual: working proficiency in English, familiar with common technical terms in programming.
- Programming: Proficient in **JavaScript**, **Python**, **Java**, and **SQL**, familiar with **Bash**.
- Development: Familiar with **PyTorch**, **ReactJS**, **Django**, **Spring Boot**, **Agile** (scrum), **CI/CD** (Travis CI), **Git VCS**, **VS Code**, **IntelliJ**, knowledge on **Docker**, **Kubernetes (k8s)**, **UNIX**, and **AWS**.

PROFESSIONAL EXPERIENCE

Kaizntree Co., *Co-founder,* and *Full-stack Engineer*   Sep 2021 – Present

Co-founded a powerful one-stop management platform for small businesses.
- **Kaizntree Small Business Management Platform**
  - Built a comprehensive management platform powered by VueJS, Django, and PostgreSQL for 50+ small businesses, seamlessly integrating with major sales channels like Shopify and Square.
  - Combined Django's backend wizardry with agile development (scrum) and CI/CD, allowing Kaizntree to meet customers' ever-changing demands and be customer centric.
- **NYU Summer Launchpad**
  - Stood out in the prestigious 2023 NYU Summer Launchpad program, a testament to Kaizntree team's dedication and strong technical foundation.
  - Secured a $10,000 non-dilutive funding and $15,000 in AWS credits.

eBay Inc., *Software Engineering Intern* at Infrastructure Engineering Team   Sep 2022 – Aug 2023

Drove innovative project initiatives, modernized UIs, automated tasks for infrastructure engineering.
- **Average-Time-to-Business (ATB) Dashboard**
  - Conceptualized and proposed a web-based ATB dashboard for real-time monitoring of clusters and ongoing change requests (CRs), enabling efficient tracking of past issues and reducing issue/crisis response time on cloud servers.
  - Spearheaded the development of the ATB dashboard as a Redux-powered ReactJS + Django application.
  - Benefited over 100 infrastructure engineers with improved incident response time, streamlined rollout processes, and better operational efficiency.
- **KeyHub (Community's Email UI for Encrypted Password Exchange)**
  - Led the migration of eBay's KeyHub UI from Vue to React to align with eBay's tech stack.
  - Upgraded KeyHub's encryption library to conform with the latest OpenPGP standard, fortifying security for password exchange across eBay's infrastructure team.
  - Integrated KeyHub into eBay's cloud console UI using JS-Plugin, promoting smoother user experiences.

RESEARCH & PROJECTS

Few-shot Segmentation with Adaptive Data Augmentation and Cross Attention   NYU Shanghai

*Research Assistant mentored by Professor Li Guo. Paper submitted to **CVPR 2023***   Mar 2022 to 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.
- Incorporated a 4-D consensus cross attention module to align query and support features for improved generalization ability.
- Used PyTorch to build a scalable codebase for few-shot segmentation research, enabling easy backbone swaps and semi-auto experience in running experiments on Linux high-performance computing clusters.
- Set up a neat and re-usable visualization codebase (based on Open-CV, Pytorch, and plotting libraries like Matplotlib) with well-documented APIs to help verify and visualize the results of our proposed model.