XIAOCHEN (NIGEL) LU

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EDUCATION

New York University Sept. 2023 – May 2025

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

New York University Sept. 2019 – May 2023

*B.S. in **Data Science**, minor in **Computer Science***, **GPA**: *3.91/4.0*

- Honors & awards: *Magna cum Laude*, *NYU Honors Scholar*
- Computer vision researcher focusing on semantic segmentation in few-shot learning scenarios

Relevant courses: *Applied Internet Technologies* (full-stack dev with React + ExpressJS), *Data Structures*, *Databases*, *Computer Architecture (concurrency)*, *Algorithms*, *Software Engineering* (agile dev using Scrum), *Intro to Java (multi-thread, Spring Boot, Maven), Machine Learning*

SKILLS

- Programming: Proficient in **JavaScript**, **Python**, **Java**, and **SQL**, familiar with **Bash**.
- Development: Familiar with **PyTorch**, **ReactJS**, **Django**, **Django Rest Framework**, **Spring Boot**, **Agile** (scrum), **CI/CD** (Travis CI + AWS), **Git**, **VS Code**, **IntelliJ**, knowledge on **Docker**, **Kubernetes**, and **AWS**.
- Other: Fluent user in **MS Office Suite** (including Outlook), strong **communication and teamwork ability**

PROFESSIONAL EXPERIENCE

Kaizntree Co., *Co-founder*, *Full-stack Engineer* Sept. 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, Square, Etsy, Xerox, etc.
  - Combined Django Rest Framework with agile development (scrum) and CI/CD, allowing Kaizntree to resolve customer feedbacks under 48 hours and build a wholesale workflow from scratch under two weeks
- **NYU Summer Launchpad**
  - Stood out in the 2023 NYU Summer Launchpad program and won the 2023 NYU x Yale Startup Competition, where Kaizntree was awarded with 1-on-1 mentorship from established entrepreneur coaches
  - Secured a $10,000 non-dilutive funding and $15,000 in AWS credits, which have been used to expand Kaizntree's server capacity to provide customers a smoother experience
  - Picked by two investors and received a total of $30,000 investment

eBay Inc., *Software Engineering Intern* Sept. 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 live 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

Expsoft Ltd., *Software Engineering Intern* May 2021 – Sept. 2021

- **Expsoft Auditing Platform**
  - Leveraged the power of Springboot and Maven to build resilient and user-friendly auditing platforms for governments and civil construction companies
  - Secured a project from Soochow government worth $250,000 to provide customized audit management platform

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 – 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 on new domains by 15%