

# XIAOCHEN (NIGEL) LU

New York, NY | +1 845-248-2938 | x13139@nyu.edu | Website: <http://nigellu.com>

## 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 (Spring Boot, Maven)*, *Machine Learning (PyTorch)*, *Network Security*, *Computer Networking*

## 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**

## RESEARCH & PROJECTS

### Few-shot Segmentation with Adaptive Data Augmentation and Cross Attention

New York University

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%

## 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