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*

Relevant courses: *Applied Internet Technologies* (React + ExpressJS), *Data Structures*, *Databases*, *Computer Architecture*, *Algorithms*, *Software Engineering* (agile dev using Scrum), *Machine Learning* (PyTorch)

**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**.

**RESEARCH & PROJECTS**

**Few-shot Segmentation with Adaptive Data Augmentation and Cross Attention** New York University

*Research Assistant mentored by* [*Professor Li Guo*](https://shanghai.nyu.edu/academics/faculty/directory/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%

**Multimodal Online Student Engagement Dataset** SMART-LAB NYU Abu Dhabi

*Research Assistant mentored by* [*Professor Hanan Salam*](http://www.hanansalam.com/)May 2021 to Mar. 2022

*Co-authored a paper and published on* ***Nuclear Physics B*** *journal.*

* Created an engagement detection dataset in online learning settings with post-class survey results as auxiliary label.
* Established a CNN-RNN hybrid model that processes spatial and temporal signals as the baseline for the dataset.

**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 rollouts
* **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