XIAOCHEN LU

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EDUCATION

NYU Shanghai, Shanghai, China   Expected graduation date: May 2023
Major: **Data Science + Business and Finance**
Minor: **Computer Science**
Cumulative GPA: **3.893/4.0**
Data Science Major GPA: **3.96/4.0**

Jiangsu Liangfeng High School, Suzhou, Jiangsu, China   Sep 2016 to Jun 2019

WORK EXPERIENCE

Frontend Dev Intern, **eBay Inc.**, Shanghai, China   Sep 2022 to Current
- Work with a team of 10 people to build & provide support for eBay's cloud infrastructure platform
- Harness the power of function-based React JS, Redux, and Antd to build plugins (mini-Apps)
- Design and write efficient, robust, and well-documented utility helper tools for our team

Frontend Engineer, **Kaizntree Ltd.**, Hong Kong SAR, China (Remote Work)   May 2022 to Sep 2022
- Build and work in a startup with 3 of my college friends and 4 other employees
- Leverage the power of Vue's reactivity and Django's versatility to build a management system for small businesses. The SPA (single-page-application) we built integrates an all-in-one workflow from raw material purchase to building and selling products (visit Kaizntree website at https://www.kaizntree.com/)

Frontend Dev Intern, **Jiangsu Expsoft Ltd.**, Wuxi, China   May 2021 to Sep 2021
- Collaborated with a team of 18 people to build a powerful and easy-to-use system for company/government to manage auditing tasks
- Built an NLP segmentation tree API specialized in civil and construction engineering setting, and deployed it as a web-based system with UI and API
- Using MobileNetV2 as feature extraction backbone network, build a liveness anti-spoofing detection network, and deploy it as a system with UI and API; Build a face recognition API based on DeepFace library from Facebook (now changed name to Meta)

RESEARCH EXPERIENCE

Researcher, **NYU Shanghai**   Mar 2022 to Current
- Research in few-shot image segmentation with a team of 5 led by Professor Guo Li at NYU Shanghai
- Leverage the power of Transformers and Deep Residual Network to build few-shot models that achieve SOTA performance

Researcher, **SMART-LAB NYU Abu Dhabi**   May 2021 to Mar 2022
- Participated in a project named "Multi-modal Engagement Detection in Online Learning Context", led by Professor Hanan Salam from NYU Abu Dhabi. Create a dataset for online learning engagement detection and opened it to research community; Use R and Python to verify dataset's internal validity; Use OpenCV and OpenFace to do face detection and feature extraction, and build an engagement detection network specialized in online learning engagement detection

Research Leader, **NYU CAS**   Sep 2021 to Dec 2021
- Use and improve object detection algorithm YOLOv3: by keeping the feature extraction backbone DarkNet53 as it is and modifying the feature pyramid network to better concentrate on detecting what matters in driving situations. Achieved a real-time detection frame rate of 42 on personal computer, with a mAP of 49.6% when transferred to images outside the dataset

VOLUNTEER EXPERIENCE

Teacher, **Stepping Stones Shanghai**   Oct 2019 to Dec 2019
- Teach English during weekends for a class of 52 elementary-level children of migrant workers in Shanghai
  - Prepare each week's course slides, including designing the course to be fun, interactive and coordinating with local teachers

SKILLS

Languages: Native speaker in Chinese, Fluent in English (speaking & writing), with a CET-4 score 634, GRE score 324+4
Coding Languages: Python, JavaScript (ES6), SQL

Deep Learning: Pytorch, with a focus on computer vision few-shot segmentation/classification tasks
Frontend: HTML5, CSS3, Vue2, React JS, Node JS, ES6

INTERESTS

Cycling, Hiking, Basketball, Consumer Electronics, Computer Networks