XIAOCHEN LU

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EDUCATION

Bachelor, NYU Shanghai 2019/09 - 2023/05 — Shanghai, China
Major: **Data Science**
Secondary Major: **Business & Finance**
Minor: **Computer Science**
Cumulative GPA：**3.893/4.0**, with a consecutive three years on University Dean's List
Data Science Major GPA: **3.96/4.0**

Bachelor Studyaway, NYU 2021/09 - 2022/06 — New York, US

WORKING EXPERIENCE

Kaizntree Ltd. — Remote
Full-stack Dev Engineer — 2022/05 — Current
- 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 SAP (single-page-application) we built integrates an all-in-one workflow from raw material purchase to building and selling products.

Jiangsu Expsoft Ltd. — Wuxi, China
Frontend Dev Intern — 2021/05 — 2021/09
- Collaborated with a team of 18 people to build a powerful and easy-to-use system for company/government to manage auditing tasks

Deep Learning Intern — 2021/09 - 2021/12
- Built a 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

NYU Shanghai Dean's Undergraduate Research Fund 2022
Researcher — 2022/03-Current

Skills

Language:

Native speaker in Chinese;

Fluent in English (speaking and writing), with a CET-4 score 634, GRE score 324

Coding Languages:
Python, Javascript, SQL

Deep Learning:

Pytorch, with a focus on few-shot segmentation/ classification tasks on computer vision

Front-end:

HTML5, CSS, Vue JS, React JS, Node JS

Database:

MySQL and MS SQL Server

- 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

SMART-LAB NYU Abu Dhabi

Researcher **2021/05-2022/03**

- 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

YOLOv3's Application in Object Detection for Autonomous Driving

Research Leader **2021/09-2021/12**

- 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