XIAOCHEN (NIGEL) LU

New York, NY | +86 180-2164-2001 | xl3139@nyu.edu | Website: http://nigellu.com

EDUCATION

New York University, Tandon School of Engineering — New York, NY
M.S. in Computer Science, awarded a scholarship of $6,000 — Sep 2023 – May 2025
New York University, NYU Shanghai — Shanghai, China
B.S. in Data Science, minor in Computer Science — Sep 2019 – May 2023
One-year study-away at New York University, New York Campus — Sep 2021 – May 2022
- Cumulative GPA: 3.9/4.0, Data Science Major GPA: 3.96/4.0
- Honors & awards: Magna cum Laude, NYU Honors Scholar, NYU Shanghai Excellence Award
- Courses: Information Technology, Decision Models & Analysis (Excel-based), Computer Architecture.

SKILLS

- **Lingual**: proficient in English and Chinese speaking/writing
- **Computer OS**: Advanced user level in Ubuntu (Linux), Windows 10/11, macOS X till latest.
- **Office & G-Suite**: familiar with Office suite and Google suite (e.g., Google sheets, PowerPoint, etc.)

ON-CAMPUS EXPERIENCE

Chinese Admissions Ambassador, **NYU Shanghai Chinese Admissions Office** — Oct 2019 to May 2023
- Hosted or co-hosted online/in-person panels for information sharing and advertising admissions events.
- Led weekly campus tours during weekends and present NYU Shanghai to potential students and their parents.
- Assisted in the admission process by performing data cleaning/analysis on applications and provide quantitative insights.
- Provided information to and resolve application issues of potential students via the admissions hotline.

Resident Assistant, **NYU Shanghai Office of Residential Life** — Aug 2020 to Jun 2021
- Oversaw a residence hall with 688 residents and developed a safe and inclusive community for 49 students.
- Reached out to and collaborate with different departments/other RAs to hold meaningful on-campus events for residents.
- Shouldered responsibilities like bulletin board, resolving issues resident may encounter, assessing and escalating crisis.

VOLUNTEER EXPERIENCE

English Teacher, **Steppingstones Shanghai** — Oct 2019 to Dec 2019
- Teach English for a class of 52 elementary-level children of migrant workers in Shanghai to promote education equality.

PROFESSIONAL EXPERIENCE

eBay Inc., *Software Engineering Intern* — Shanghai, China
Built, improved, and redesigned some of eBay's cloud platform UIs — Sep 2022 – Jul 2023
- **Average-Time-to-Business (ATB) Dashboard**
  - Proposed a web-based dashboard for live monitoring of cluster status and on-going CRs.
  - Led the implementation of the ATB dashboard as a modern single-page application by employing Redux, Antd UI library.
  - Updated the dashboard periodically to cater to different needs, serving a team of over 60 infrastructure engineers.
- **KeyHub (encrypted email UI for password exchanges)**
  - Migrated eBay's KeyHub from Vue to React to align with eBay's frontend tech stack.
  - Upgraded KeyHub's encryption library to the latest OpenPGP for enhanced security.
  - Refactored over 95% of the code for reduced API calls, faster rendering speed, and ease of use (tooltips and feedback).
  - Integrated the new KeyHub to eBay's cloud console UI as a plugin using JS-Plugin.
- **Public L7 Rule UI**
  - Built an extremely user-friendly UI for configuring and viewing the status of public L7 rules on eBay's cloud platform.
  - Embedded helpful validation feedback for most fields in the L7 rule form via API calls (async)/Regex (real-time).
  - Designed a robust auto filling mechanism to manage the complex dependencies/relationships between fields.

Kaizntree Ltd., Full-stack Engineer — New York, NY & Remote
Established a startup building a one-stop management platform for small businesses (website here) — Sep 2021 – Sep 2022
- **Kaizntree UI & Backend**
  - Adopted VueJS combined with Vuetify component library to offer users a consistent and fluid UI experience.
  - Carefully designed and delivered a one-stop platform covering needs from inventory transaction processing, product building and sales to item tracking via QR codes, helping over 40 small businesses to manage their workflow.
  - Leveraged Django's versatility to build backend services that support rollbacks and agile responses to allow safer version iterations and cater to evolving user demands.
- **NYU Summer Launchpad**
  - Got selected to the 2023 NYU summer launchpad under our team's effort and strong technical foundation.
  - Received a $10,000 non-dilutive funding and $10,000 AWS credits for running our online platforms.

RESEARCH & PROJECTS

Few-shot Segmentation with Adaptive Data Augmentation and Cross Attention — NYU Shanghai
Research Assistant mentored by Professor Li Guo. Co-authored a paper and submitted to CVPR 2023 — Mar 2022 to 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.
- Used PyTorch to build a scalable codebase for few-shot segmentation research, enabling easy backbone swaps and semi-auto experience in running experiments on Linux high-performance computing clusters.
- Set up a neat and re-usable visualization codebase (based on Open-CV, PyTorch, and plotting libraries like Matplotlib) with well-documented APIs to help verify and visualize the results of our proposed model.