

XIAOCHEN (NIGEL) LU

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EDUCATION

New York University , Tandon School of Engineering <i>M.S. in Computer Science</i> , awarded a scholarship of \$6,000 New York University , NYU Shanghai <i>B.S. in Data Science, minor in Computer Science</i> <i>One-year study-away at New York University, New York Campus</i>	New York, NY Sep 2023 – May 2025 Shanghai, China Sep 2019 – May 2023 Sep 2021 – May 2022
<ul style="list-style-type: none">• 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: Applied Internet Technologies, Data Structures, Databases, Information Visualization, Computer Architecture	

SKILLS

- **Lingual:** proficient in English and Chinese speaking/writing
- **Programming:** Intermediate level in Python, JavaScript, and Git VCS, advanced beginner in Linux terminal and a beginner with C++ and Java.
- **Office & G-Suite:** familiar with Office suite and Google suite (e.g., Google sheets, PowerPoint, etc.)

ON-CAMPUS EXPERIENCE

<i>Chinese Admissions Ambassador</i> , NYU Shanghai Chinese Admissions Office	Oct 2019 to May 2023
<ul style="list-style-type: none">• 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.	
<i>Resident Assistant</i> , NYU Shanghai Office of Residential Life	Aug 2020 to Jun 2021
<ul style="list-style-type: none">• 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

<i>English Teacher</i> , Steppingstones Shanghai	Oct 2019 to Dec 2019
<ul style="list-style-type: none">• Teach English for a class of 52 elementary-level children of migrant workers in Shanghai to promote education equality.	

PROFESSIONAL EXPERIENCE

eBay Inc. , <i>Software Engineering Intern</i> <i>Built, improved, and redesigned some of eBay's cloud platform UIs</i>	Shanghai, China Sep 2022 – Jul 2023
<ul style="list-style-type: none">• Average-Time-to-Business (ATB) Dashboard<ul style="list-style-type: none">◦ 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)<ul style="list-style-type: none">◦ 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<ul style="list-style-type: none">◦ 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. , <i>Full-stack Engineer</i> <i>Established a startup building a one-stop management platform for small businesses (website here)</i>	New York, NY & Remote Sep 2021 – Sep 2022
<ul style="list-style-type: none">• Kaizntree UI & Backend<ul style="list-style-type: none">◦ 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.◦ Integrated with major sales channels like Shopify, Square, and Xero based on their open standards to facilitate users' transition from other platforms, where users can easily migrate all previous data to Kaizntree.◦ 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<ul style="list-style-type: none">◦ 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 <i>Research Assistant mentored by Professor Li Guo. Co-authored a paper and submitted to CVPR 2023</i>	NYU Shanghai Mar 2022 to May 2023
<ul style="list-style-type: none">• Proposed an instance-aware data augmentation strategy.• Incorporated a 4-D consensus cross attention module to align query and support features for improved generalization ability.	
Multimodal Online Student Engagement Dataset <i>Research Assistant mentored by Professor Hanan Salam</i> <i>Co-authored a paper and published on Nuclear Physics B journal.</i>	SMART-LAB NYU Abu Dhabi May 2021 to Mar 2022
<ul style="list-style-type: none">• 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.	