XIAOCHEN (NIGEL) LU

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EDUCATION

New York University, Tandon School of Engineering New York, NY
Master of Science in Computer Science **(Cumulative GPA: 3.88/4.0)** May 2025
Relevant Coursework: Special Topics in Java (Spring Boot, JDBC, multi-threading), Software Engineering (scrum development), Algorithms, Computer Networking, Network Security, Penetration Testing and Analysis

New York University, NYU Shanghai New York, NY and Shanghai, China
Bachelor of Science in Data Science, double major in *Finance,* minor in *Computer Science* (Cumulative GPA: 3.91/ 4.0) May 2023
Magna Cum Laude; NYU Honors Scholar; Dean's List 2019-2023
Relevant Coursework: Applied Internet Technologies, Computer Architecture, Data Structures, Databases, Machine Learning, NLP

SKILLS

*Coding Languages***:** Python, JavaScript, TypeScript, Java, SQL, R, Objective C

*Software Tools***:** React.js, Vue.js, Babel, Yarn/Npm, Django, Express.js, Spring Boot, Maven, JPA, Thymeleaf, Git, Docker, Kubernetes, Linux/Unix, Bash Scripting, PostgreSQL, MySQL, PyTorch, Chart.js, Matplotlib, OpenCV

*Other***:** Circle/Travis CI (CI/CD), AWS EC2/EB/RDS, Agile Dev (scrum: JIRA, ZenHub), Tableau, Slack, Office/Google Suite

PROFESSIONAL EXPERIENCE

eBay Inc., Software Engineering Intern – Cloud Infrastructure Team, (Shanghai, China) **Sept. 2022 – Aug. 2023**
- Proposed and implemented an Average-Time-to-Business (ATB) dashboard using ***Redux***, ***React.js***, and ***Django*** to monitor cluster statuses and send checkout alerts, reducing crisis response time by 25% and boosting service availability from 99.14% to 99.8%
- Secured eBay's KeyHub by refactorizing it with the latest ***OpenPGP*** standard and Antd V5.0, patching 60+ security vulnerabilities
- Integrated KeyHub to eBay's Cloud Console in collaboration with the backend team using ***TypeScript***, ***JS-plugin****,* and ***Redux***, streamlining the encrypted password exchange process for over 100 eBay infrastructure engineers
- Orchestrated an intuitive UI with auto-filling for over 85% of the fields to streamline the ***L7 rule*** configuring process for eBay's ***Kubernetes (K8s)*** clusters, increasing efficiency by more than 70% and minimizing potential human errors in the loop

Kaizntree Co., Co-founder and CTO, (New York, NY and Remote) **Sept. 2021 – Feb. 2024**
- Developed an innovative one-stop management solution for small businesses using ***Vue.js****,* ***Django Rest Framework****,* and ***PostgreSQL***, earning 100+ happy customers by reducing their time spent on management tasks from 15 to just 2 hours per week
- Managed to 2-way integrate Kaizntree with 4 major sales channels using ***OAuth2*** (Shopify, Square, Etsy, and Xerox) and automated stock sync across platforms, putting an end to the cumbersome manual updates and stock inconsistency on different channels
- Led Kaizntree's development team and adopted ***Scrum Development***, **Circle CI/CD** with ***Heroku*** to minimize friction throughout the software development lifecycle (SDLC), enabling Kaizntree to address customer feedback under 48 hours and continuously rolling out new features weekly
- Won the 2023 NYU Summer Launchpad and 2023 NYUxYale Startup Competition, with a reward of $10,000 non-dilutive funding
- Got invited to YCombinator, Techstars, and 500 Global startup accelerator events, receiving mentorship from tech entrepreneurs
- Earned investment from 3 individual investors and received a total of $250,000 investment with Kaizntree valued at 5 million

Expsoft LLC., Software Engineering Intern, (Wuxi, China) **May 2021 – Sept. 2021**
- Leveraged the power of ***Spring Boot****,* ***Thymeleaf****,* ***JPA****,* and ***Maven*** to build robust, user-friendly, and highly customizable online auditing platforms for governments
- Secured a project from the Soochow government worth $400,000 to supply a customized audit platform

RESEARCH & PROJECTS

Parkrowd NYC, a Crowd-sourced Parking Info Sharing Platform based on NYC Open Data (repo link) **Sept. 2023 – Dec. 2023**
- Conceptualized a parking info-sharing platform by listing *MVP*, *MLP*, and API documentation, and using *Figma prototyping*
- Implemented Parkrowd as a *Django RESTful app* integrated with *Google Maps API* through *ZenHub Scrum* with a team of 5
- Employed *Travis CI, **AWS Elasticbeanstalk, AWS RDS**,* and *Coveralls.io* to build a seamless CI/CD pipeline

Rate My Professor, a redesigned Single-page App for Students to Upload/View Professor Ratings (repo link) **Sept. 2023 – Dec. 2023**
- Coordinated efficient full-stack development using scrum sprints and backlogs, allowing my team of 2 to roll out the app in 2 months
- Utilized Maven, Spring Boot with JPA, ***Spring Security***, and *multi-threading* to build a robust, highly concurrency-capable backend

Few-shot Segmentation with Adaptive Data Augmentation and Cross Attention (link to paper) **Mar. 2022 - May 2023**
- Proposed an instance-aware data augmentation strategy to improve support image diversity and reduce distribution inconsistency
- Incorporated a 4-D consensus cross-attention module to align query and support features, increasing accuracy by 5.4%
- Concluded the results by open sourcing the experiment codebase, co-authoring a paper, and submitting the paper to arXiv