**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](https://github.com/NigelLu/Parkrowd)) **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](https://github.com/NigelLu/RateMyProfessor)) **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](https://arxiv.org/abs/2401.09866) 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