**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: Intro to Java (Spring Boot), Software Engineering (Django + 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, Data Science, 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 (Objective C), Data Structures (OOP), Databases, Machine Learning (TensorFlow), Natural Language Processing (PyTorch)

**SKILLS**

***Coding Languages:*** Python, JavaScript, TypeScript, Java, SQL, No-SQL, R, Objective C, Haskell, Common Lisp

***Software Tools:*** React.js, Vue.js, Babel, Yarn/Npm, Django, Express.js, Spring Boot, Maven, JPA, Thymeleaf, Git, Docker, Kubernetes, PostgreSQL, MySQL, MongoDB, pgAdmin, MySQL Workbench, PyTorch, Tableau, Pandas, Scikit-learn, NumPy

***Other Tools:*** Circle/Travis CI (CI/CD), AWS EC2/EB/RDS, Agile Dev, Figma Prototyping, Linux/UNIX, Slack, Office/Google Suite

**PROFESSIONAL EXPERIENCE**

**eBay Inc.,** Software Engineering Intern – Cloud Infrastructure Team, (Shanghai, China) **Sept. 2022 – Aug. 2023**

* Innovated an Average-Time-to-Business dashboard using ***Redux***, ***React.js***, and ***Django*** to monitor cluster statuses and prepared *SQL queries for* ***data aggregation*** and ***PostgreSQL*** for storing alert thresholds, boosting service availability from 98.74% to 99.78%
* Managed to integrate eBay’s KeyHub (eBay’s in-house encrypted password exchange platform) to eBay’s Cloud Console using ***TypeScript***, ***JS-plugin****,* and ***Redux***, streamlining the encrypted password exchange process for 100+ eBay infrastructure engineers
* Secured eBay’s KeyHub with the latest ***OpenPGP*** standard and ***AES encryption*** for database-stored keys, patching 60+ vulnerabilities
* 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**

* Built a 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
* Collected and analyzed 1000+ user feedback and adopted ***Scrum Development, Circle CI/CD*** with ***Heroku*** to minimize friction throughout the software development lifecycle (SDLC), enabling Kaizntree to address platform BUGs under 24 hours
* Spearheaded the ***2-way integration*** between Kaizntree and 4 major sales channels using ***OAuth2*** (Shopify, Square, Etsy, and Xerox) and automated stock & order sync across platforms, putting an end to manual updates and stock inconsistency on different channels
* Incorporated ***database normalization techniques*** to optimize query performance and ensure data consistency across platforms
* Won the 2023 NYU Summer Launchpad and 2023 NYUxYale Startup Competition, with a reward of $15,000 non-dilutive funding
* 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****,* ***Maven***, and ***MySQL’s stored procedures/triggers*** to build highly automated and 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 on arXiv) **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%