**XIAOCHEN (NIGEL) LU**

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**EDUCATION**

**New York University**  New York, NY

*M.S.* in *Computer Science* **(**GPA: 3.95/4.0)Sept. 2023 – May 2025 *(Can start full-time in/after Feb. 2025)*

Relevant Coursework: Intro to Java, Software Engineering, Algorithms, Computer Networking, Network Security, Intro to Offensive Security, Programming Languages, Big Data

**New York University** New York, NY

*B.S.* in *Data Science* (GPA: 3.91/ 4.0, Magna Cum Laude) Sept. 2019 - May 2023

Relevant Coursework: Applied Internet Technologies, Computer Architecture, Data Structure, Databases, NLP

**SKILLS**

***Languages:*** Python, JavaScript, TypeScript, Java, SQL, C, R, CSS, HTML

***Frameworks & Tools:*** React.js, Next.js, Vue.js, Redux, Django, Spring Boot, Git, Docker, Kubernetes, Postgres, PyTorch, GraphQL, AWS, Azure, Hadoop, Spark

***Other:*** CI/CD, REST APIs, Multi-thread, Agile (Scrum), Linux, Slack, TCP/IP, SSL/TSL, Office/Google Suite

**PROFESSIONAL EXPERIENCE**

**NYC Department of Design and Construction** *Software Engineer Intern*  **Jun. 2024 – Aug. 2024**

* Created, trained, and tuned machine learning models using Azure ML Studio, *PySpark*, and Hadoop, applying random forest regressor and time series forecasting to predict construction timelines and enhance construction planning efficiency
* Built a React app with Django to deliver analysis results and incorporated *OpenAI API* to provide AI-powered interactive data insights for over 400 construction engineers within the Department of Design and Construction

**eBay Inc.** *Software Engineering Intern* **Sept. 2022 – Aug. 2023**

* Identified the inefficiencies in cluster status monitoring and developed an Average-Time-to-Business Dashboard using *Redux*, *React.js*, and *Django*, which enhanced cluster alerting mechanism and visualized factors that impact service availability, cutting crisis response time by 25%
* Upgraded eBay’s KeyHub from *Vue2* to *React* and integrated it into eBay’s Cloud Console using TypeScript, Redux, and JS-Plugin, updating it to the latest *OpenPGP* standard to ensure secure password exchange for over 100 infra engineers

**Kaizntree Co.** *Full-stack Software Engineer* **Sept. 2021 – Feb. 2024**

* Built a one-stop management solution for small businesses using *Vue, Django REST framework,* and *PostgreSQL*, reducing customers’ weekly administrative time from 15 hours on average to just 2 hours
* Adopted *Scrum Development, Travis CI/CD* with *AWS* (later migrated to *Heroku*) to minimize friction along the software development lifecycle (SDLC), enabling Kaizntree to address BUGs 40% faster and roll out features bi-weekly
* Implemented the *2-way integration* between Kaizntree and 4 major sales channels using *OAuth2* (Shopify, Square, Etsy, and Xero), enabling automatic cross-platform stock & order synchronization, thus eliminating manual updates and inconsistency in stocks

**Expsoft LLC.** Software Engineering Intern **May 2021 – Sept. 2021**

* Developed a customizable web-based auditing platform using Spring Boot and *Activiti Workflow Engine*
* Secured a $1,140,000 contract from the Soochow government to build a tailored audit platform

**PROJECTS**

**Parkrowd NYC**, Parking Info-Sharing Platform for NYC(app [*link*](http://parkrowd-env.eba-spjjw3yh.us-west-2.elasticbeanstalk.com/), repo [*link*](https://github.com/NigelLu/Parkrowd)) **Sept. 2023 – Dec. 2023**

* Led a Scrum team of 5 to implement Parkrowd as a Django RESTful app integrated with Google Maps API
* Created an automated CI/CD pipeline utilizing TravisCI and AWS EB to improve deployment efficiency

**Rate My Professor**, a Redesigned Professor Rating Platform(repo [*link*](https://github.com/NigelLu/RateMyProfessor)) **Sept. 2023 – Dec. 2023**

* Utilized Maven, Spring Boot with *JPA*, *Spring Security*, and *multi-threading* to build a robust, highly concurrency-capable backend