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*, repo *link*)   **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*)   **Sept. 2023 – Dec. 2023**

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