

XIAOCHEN (NIGEL) LU

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EDUCATION

New York University

New York, NY

M.S. in *Computer Science* (Cumulative GPA: 3.95/4.0)

Sept. 2023 – Dec 2024

Relevant Coursework: Intro to Java (Spring Boot), Software Engineering (Django + scrum development), Algorithms, Computer Networking, Network Security, Intro to Offensive Security, Information Security, Programming Languages, Big Data

New York University

New York, NY and Shanghai, China

B.S. in *Data Science*, double major *Finance*, minor in *Computer Science* (Cumulative GPA: 3.91/ 4.0)

Sept. 2019 - May 2023

Latin Honor: Magna Cum Laude; NYU Honors Scholar; Dean's List 2019-2023

Relevant Coursework: Applied Internet Technologies, Computer Architecture (C), Data Structures (OOP), Databases, Machine Learning (TensorFlow), Natural Language Processing (PyTorch)

SKILLS

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

Frameworks & Tools: React.js, Next.js, Vue.js, Redux, jQuery, Tailwind CSS, Django, Spring Boot, D3.js, Chart.js, Git, Docker, Kubernetes, PostgreSQL, Redis, PyTorch, PySpark, Hadoop, Figma Designing, Circle/Travis CI (CI/CD), AWS EC2/EB/RDS

Other: Scrum Development, Linux, Slack, Newsletter Design/Coding, Office/Google Suite, Teamwork

PROFESSIONAL EXPERIENCE

Department of Design and Construction, NYC Government Software Engineer Intern (New York, NY) 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

Learning and Teaching at Nexus, New York University Technology Assistant (New York, NY) Jan. 2024 – May. 2024

- Redesigned Nexus's newsletter and communication email templates for a cleaner, more interactive layout using CSS3 and HTML5, boosted email open rate by 60% and received 10+ gratitude letters from faculty
- Enhanced faculty's digital proficiency through workshops and monthly tech posts on Nexus's Wix site, providing resources to integrate non-traditional teaching medium like VR/AR into classes

eBay Inc., Software Engineering Intern – Cloud Infrastructure Team (Shanghai, China)

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
- Developed an intuitive interface that automates over 85% of config entries for L7 rule configuration on eBay's **Kubernetes** clusters—load balancing rules at the application layer—increasing efficiency by over 70% and minimizing human errors

Kaizntree Co., Full-stack Software Engineer (New York, NY and Remote)

Sept. 2021 – Feb. 2024

- Built a one-stop management solution for small businesses using **Vue**, **Django REST framework**, and **PostgreSQL**, reducing customers' time spent weekly on administrative tasks 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 (Wuxi, China)

May 2021 – Sept. 2021

- Developed a highly customizable web auditing platform for governments using Spring Boot, **Activiti Workflow Engine**, MySQL
- Secured a \$1,140,000 contract from the Soochow government to build a tailored audit platform fitting their needs

RESEARCH & PROJECTS

Parkrowd NYC, a Parking Spot Info-Sharing Platform based on NYC Open Data (prod app [link](#), repo [link](#)) Sept. 2023 – Dec. 2023

- Conceptualized a parking info-sharing platform to tackle urban parking issues using Figma, outlining MVP and MLP feature sets
- 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, AWS Elasticbeanstalk, and Coveralls.io to improve deployment efficiency

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 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