XIAOCHEN (NIGEL) LU

New York, NY | +1 (845) 248-2938 | xiaoclu@outlook.com | http://nigellu.com

EDUCATION

New York University　　　　　　　　　　　　　　　　　　　　　　　　　　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, R, Objective C

Software Tools: React.js, Vue.js, Babel, Yarn/Npm, Django, Express.js, Spring Boot, Maven, JPA, Thymeleaf, Git, Docker, Kubernetes, PostgreSQL, MySQL, PyTorch, TensorFlow, Chart.js, Matplotlib, OpenCV, Pandas, SciPy, 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 (ATB) dashboard using *Redux*, *React.js*, and *Spring Boot* to monitor cluster statuses and send checkout alerts, reducing crisis response time by 25% and boosting service availability from 99.14% to 99.8%
- 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
- Upgraded eBay's KeyHub to conform with the latest *OpenPGP* standard and Antd V5.0, patching 60+ security 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., Full-stack Software Engineer, (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 the trust of customers by reducing their time spent on management tasks
- Collected and analyzed 100+ 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 faster
- Collaboratively enhanced the *2-way integration* between Kaizntree and 2 major sales channels using *OAuth2* (Shopify, Etsy) and automated stock & order sync across platforms, putting an end to manual updates and stock inconsistency on different channels

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)　　**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)　**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 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%