

# Xiaoxu (Lucy) Chen

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## EDUCATION

**Northeastern University**, Seattle, WA

Expected December 2025

*Master of Science in Computer Science, GPA: 4.0/4.0*

- Coursework: Data Structures and Algorithms, Object-Oriented Design, Database Management Systems

**Peking University**, Beijing, China

July 2018

*Bachelor of Economics and Bachelor of Laws, GPA: 3.7/4.0*

- Coursework: Data Analysis and Statistical Software, Financial Modeling, Probability and Statistics

## TECHNICAL SKILLS

- Languages: Python, Java, C++, TypeScript, JavaScript, HTML5/CSS3, SQL, R
- Frameworks: React, Express, Node.js, Spring Boot, Flask, Django, JUnit
- Databases & Tools: MongoDB, MySQL, PostgreSQL, Redis, Spark, AWS RedShift, Docker, Gradle, Git, Linux

## WORK EXPERIENCE

**Software Engineer Intern**

May 2023 – August 2023

*DiDi Finance, Beijing, China*

- Collaborated with a team of 3 to develop a RESTful API for user transactions and financial reporting, and a new API controller to the Spring Boot backend, driving a 6% monthly revenue increase
- Designed and performed over 200 unit tests with Junit, resulting in a 20% decrease in service downtime

**Data Engineer**

March 2021 – April 2023

*9FGroup, Shenzhen, China*

- Implemented and maintained a real-time data pipeline using Spark, Redshift and Python, improving data ingestion and ensuring up-time of 99.4%
- Automated ETL processes for large-scale user transactional data, reducing manual workloads by 29%

## PROJECTS

**Full Stack Food Ordering Platform** | React, Node.js, Express, MongoDB, JavaScript

- Created a food ordering web application using MERN stack, enabling users to order items and track status
- Utilized React Router for seamless navigation and Redux for efficient state management
- Implemented secure user authentication with Auth0 and integrated Stripe payment gateway

**URL Shortener** | React, Spring Boot, PostgreSQL, Lombok, Docker, Redis, Java

- Built a shortener that generates unique aliases for long URLs with React, Spring Boot and PostgreSQL
- Secured RESTful API endpoints with JWT tokens, OAuth2 Authentication and Spring Security
- Leveraged Lombok for code simplification and Docker Compose for containerizing Redis

**Investment Research Search Engine** | Flask, MongoDB, Python

- Developed a search engine using Flask with Python and MongoDB, which allows investment analysts to retrieve summaries of research reports, reducing the time to glean target reports by 40%
- Built a crawler with BeautifulSoup to scrape and process over 500 reports from 30 websites weekly
- Implemented the TextRank algorithm for text summarization and TF-IDF for information retrieval