

# Lin Yang

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## EDUCATION

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### Northeastern University, Seattle, WA

Master of Computer Software Engineering

Aug. 2022 – Dec. 2024 (Expected)

Relevant Courses: Data Structure and Algorithm, Web Development, OS, Agile Development

### Case Western Reserve University, Cleveland, OH

Bachelor of Mathematics | Bachelor of Economics | Dual Degree

Aug. 2016 – May. 2021

## PROFESSIONAL EXPERIENCE

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### Protime Internet Technology, Shanghai, China

Data Analysis Intern, Data Department

Jan. 2021 – Nov. 2021

- Leveraged resources across different platforms to collect and aggregate E-commerce data with **Python**, identified abnormal data points using k-means clustering
- Conducted preliminary analysis on E-commerce market and adopted STP marketing model in **SQL Server** based on demographic data and future potential growth to offer recommendations to clients
- Performed industry landscape and competitiveness analysis for two markets including cosmetics and 3C, and forecasted industry developing trends

## PROJECTS

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### Full Stack (MERN stack) E-Commerce Website | React, Redux, GraphQL, Firebase

May. 2024 – Aug. 2024

- Build a JavaScript website using **React** that allow users to register, login, browse products by categories and make purchases
- Incorporated Stripe API to process payment and **GraphQL API** to fetch data with queries, resulting in a 60% decrease in response latency for queries
- Utilized **Firebase** for authentication mechanism and data management to improve information security
- Achieved user-friendly navigation and fluent user experience with **React Router** to keep the UI in sync with the URL
- Utilized JavaScript libraries such as **Redux** to manage the state of application and accelerate data processing
- Improved navigation efficiency with structured content hierarchies and persistent navigation menu bar

### Chat Application | JavaScript, Express.js

Feb. 2024 – April. 2024

- Developed a SPA chat application where all users share a single chat forum, with persistent message history visible to all users upon login
- Implemented **RESTful** services using **Express.js** following best practices, including secure user authentication and authorization
- Utilized a time-based polling mechanism to update client-side state with new messages and user lists without interrupting user input

### AWS Serverless REST APIs Development | Java

Mar. 2023 – Apr. 2023

- Build Serverless REST APIs for an e-commerce platform using **Java**
- Utilized AWS API Gateway to optimize API performance in managing user profiles and product information
- Incorporated **AWS Lambda** to enhance response time by 20% for order processing, product management and payment processing
- Build **CI/CD** Pipeline using AWS CodeCommit, AWS CodeBuild and AWS CodePipeline to optimize the development process and reduce 30% deployment time

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, JavaScript (TypeScript), HTML, CSS(SASS)

**Database:** MongoDB, MySQL, Firebase

**Tools & Frameworks:** Git, GitHub, GraphQL, React, Redux, ExpressJS, AWS, CI/CD