# Yifeng Sun

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## Education

**New York University** — New York, NY
MS Computer Engineering — Sep 2022 - Expected May 2024

**Northeastern University** — Shenyang, China
BEng Software Engineering — Sep 2018 - June 2022

## Work Experience

**Tesla, Inc.** — Shanghai, China
*Software Engineer Intern* — July 2021 - October 2021

- Used Go and Gin to develop and maintain backend functions, ensured system stability and efficiency.
- Builded RESTful APIs across multiple microservices and optimized query logic to reduce database pressure from these APIs by 29% in production environments.
- Used Angular-based front-end framework employing declarative methods to construct front-end pages.
- Teamworked in scrums to rapidly meet bussiness requirements.
- Used PyTorch and reinforcement learning to build and train an AI model to find the optimal itinerary for trailers.
- Developed and used code generators to automate the generation of XML files for front-end pages.
- Used golint to ensure that the code is compliant with the specification.
- Used Flyway to help implement database migrations between versions.
- Used Swagger to realize auto generation of API documents.
- Used DevOps tools (Jenkins and Blue Ocean) to perform CI/CD.

**Xiaomi Inc.** — Beijing, China
*Software Engineer Intern* — May 2021 - July 2021

- Modified the Android source code to develop the privacy protection module (safe sharing, privacy shield, etc) of MIUI (the Xiaomi UI).
- Used Java to develop and maintain the Secure Sharing module independently.
- Tuned system performance against glitches and abnormal power consumption.
- Used Memory Analyzer Tool to locate and fix memory leakage to improve system efficiency.

## Skills

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| Programming languages: | Go, Java, Python, C, C++, JavaScript |
| Tools: | Docker, Kubernetes, Kafka, MySQL, Unix |
| Artificial intelligence: | Image processing and machine learning algorithm development by PyTorch |

## Projects

**StudyMobile - A cross-platform word memorization app.** *Android, Java, Vue, Spring Boot*
Used native Android components to build the Android client. Used Vue to build front-end Pages. Used an Nginx-based static resource server to achieve accelerated distribution of vocabulary data. Used Springboot to implement API reception and business logic processing. Used MySQL to perform data persistence.

**Research on medical image recognition algorithm based on deep learning** *Python, U-net*
Used Python powered with scikit-image to achieve automated image pre-processing. Used and optimized U-net to extract pathological information from medical images.

**CloudClinic - A Hospital information system** *Html, JavaScript, Spring Boot, Java, JavaFX*
Used JavaFX to build the windows client. Used Html, JavaScript and CSS to build the webpages. Used Tomcat as web server and MySQL as DBMS in Linux VPS.

## Awards

**Meritorious Winner** — Mathematical Contest In Modeling
My team and I were designated as Meritorious Winner by constructing cellular automata models in two and three dimensions to simulate how fungus discompose organic matter. — April 2021