

Zoe Zhu

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PROFESSIONAL SUMMARY

With a Bachelor's in Statistics and pursuing a Master's in Computer Software Engineering, I possess a strong background in mathematics and programming. Experienced in Software Development, Data Science, and Machine Learning (ML).

EDUCATION

Northeastern University

- Master of Science in Computer Software Engineering

Seattle, WA

Sep 2023 – May 2025 (Expected)

Fudan University

- Bachelor of Science in Statistics

Shanghai, China

Sep 2018 – Jun 2022

SKILLS / TECHNICAL SKILLS

- Languages:** Java, C, C++, Python, JavaScript, TypeScript, HTML, CSS, SQL, R
- Frameworks/Tools:** Spring Boot, React, Node.js, Vue.js, Express.js, Django, Git, Docker, AWS, Android Studio
- Databases:** MySQL, PostgreSQL, SQLite, SQL Server, MongoDB, Redis
- Relevant Coursework:** Database Management, Machine Learning, Object-oriented Programming, Cloud Computing

WORK EXPERIENCE

Shanghai AI Laboratory

Software Development Intern

Shanghai, China

Apr 2022 – July 2022

- Engaged in designing and implementing an open-source SDK for DataLab, an all-in-one platform for NLP research and data-related tasks, offering automated data preprocessing pipelines and efficient datasets management
- Designed and implemented automated data cleaning and validation routines within the SDK, used regular expressions, text processing techniques, and machine learning models to identify and rectify common data issues
- Acquired a collection of Chinese NLP datasets (over 30GB in size), identified and addressed outliers and redundant features tailored to distinct NLP task categories, harmonized the feature vectors across datasets to ensure consistency and usability, and integrated the cleaned and optimized datasets into the SDK

Botanee Group

Algorithm Development Intern

Shanghai, China

Jan 2022 – Apr 2022

- Developed a precision-focused convolutional neural network (CNN) model for skin condition assessment, optimizing for low false positives
- Collaborated in data collection and annotation for the training dataset, ensuring diversity and accuracy
- Assisted in user testing, privacy compliance, and system optimization for real-world performance

PROJECTS

CraftCove: A Handmade Products Online Marketplace | Java, Spring Boot, MySQL, JavaScript, HTML, CSS

Nov 2023

- Developed a **Spring Boot**-based backend for a handmade goods trading platform, implementing **RESTful APIs** and secure user authentication to manage user interactions and protect sensitive data.
- Designed and managed a **MySQL** database, optimizing it for efficient storage and retrieval of user profiles, product listings, and transaction details in an online marketplace environment.
- Implemented a dynamic front-end using **JavaScript**, along with **HTML** and **CSS**, to create an engaging and user-friendly interface for buying and selling handmade goods.
- Integrated key marketplace features, including secure payment gateways, artisan profiles, customer reviews, and optimized performance for a seamless user experience on the online platform.