

Yiru (Sylvia) Zhou

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EDUCATION

New York University Shanghai (NYUSH)

Sep. 2021- June. 2025

Double Major in Computer Science and Mathematics

- Cumulative GPA: **3.74/4.0** (Major GPA: **3.88/4.0**)
- Programming: Python, Java, C; JavaScript, SQL, Tableau, Latex
- Core Courses: Data structure, Algorithms, Computer Architecture, Creative Coding Lab; Multivariable Calculus, Linear Algebra, Probability and Statistics, Discrete Math

New York University, New York

Sep. 2023- May. 2024

Study Away Program

- Core Course: Machine learning, Natural Language Processing (grad-level), Analysis, ODE
Deep Learning (grad-level), Operating System, Numerical Analysis, PDE

RESEARCH AND PROJECT

The Termolator (French version)

Oct. 2023-Present

Research Assistant, Supervised by Prof. Adam Meyers, NYU Courant

- The Termolator is an open-source high-performing terminology extraction system based on Linux.
- Implemented a multi-faceted approach, including in-line term identification and distributional ranking based on linguistic and relevance metrics.
- Migrated the original English version of coding to the French version, including adjusting the corpora and making necessary code modifications

Job Recommendation System (NLP course project)

Dec. 2023

- Developed an efficient Resume-Job Recommendation System, ensuring personalized and efficient recommendations by extracting pertinent information from user resumes, enhancing overall user experience.
- Employed advanced models such as SkillNer, CRF+ BIO TAG, and Pyresparser to extract crucial keywords, skills, and entities for effective profile analysis.
- Evaluated models through TF-IDF calculations, similarity measurements, and manual annotation, resulting in the identification of the most optimal model for precise user-profile to job-matching applications.

Sonifying Movements

May. 2023-Aug.2023

Research Assistant, Supervised by Prof. Alex Ruthmann and Prof. Guangyu Xia, NYUSH

- Funded by NYU Dean's Undergraduate Research project; aimed to transform essential elements of body movements into musical elements to enhance the experience of physical rehabilitation training for patients.
- Established a CNN for deep music analogy on PyTorch, and applied Cascade Classifier for facial detection on OpenCV; extracted rhythm using VisBeat library.
- Generated music pieces with different rhythms, chords, and volumes according to the recorded gestures and angle positions bridging the concept of motion capture with music generation through socket communication.

INTERNSHIP AND ACTIVITIES

EIA (Entrepreneurs in Action) | Shanghai Leader

Nov. 2021 – Aug.2023

EIA is an International Gen Z Insights Agency for business

- Managed the official WeChat account: wrote & edited monthly previews and recaps of events.
- Held regular roundtable discussions with foreign entrepreneurs in Shanghai twice a month.

YGT (Young Green Tech) | Research Assistant

Jan. 2022 – Jun.2022

YGT is an incubator platform empowering global green entrepreneurs.

- Kept track of the latest market news, published analytical articles on the official WeChat account, and reached out to potential media partners and companies.
- Collected information, did research in haptic materials and the hydrogen energy industries and companies and provided support for financial advisors.