# Yi He

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## Education

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| 2023–2025 | **University of Pittsburgh**, *MS, Information Science*, Pittsburgh |
| 2021–2023 | **University of Michigan**, *BS, Computer Science*, Ann Arbor |
| 2019–2021 | **Shanghai Jiao Tong University**, *BE, Electrical and Computer Engineering*, Shanghai |

## Technical Skills

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|---|---|
| Languages | Python, C/C++, C#, Java, JavaScript, React, Elm, HTML, CSS, MATLAB, SQL |
| Technologies | Unreal Engine, Unity3D, Android Studio, Flask, REST APIs, MySQL, AWS, Linux/Unix |
| Tools | LaTeX, Git, Jira |
| Competencies | Solid knowledge of **data structures, algorithms**; Project experiences as a part of an **Agile** team |

## Projects

**Summer 2023** — **Developer**, *Android Mobile App Project*, **KotlinChatter**

- Developed an Android mobile chat App using **Kotlin** and **Java** with text post and retrieving, audio and image handling, and **Firebase** backend for authenrication.
- Apply MVVM mathod and use Android **Jetpack Compose** to build UI declaratively.
- Use **PostgreSQL** relational datbase management system to store chat data and host a remote server on **AlibabaCloud**.
- Use Android's common Camera component to add and manipulate images and videos.

**Fall 2022** — **Developer**, *Social Meida Web System Project*, **Insta485**

- Constructed an Instagram-like application with account creation, login, posting, and following features.
- Enhance front-end using **CSS** and **HTML**.
- Developed dynamic server-side pages using **Flask, React, and REST APIs**.
- Managed efficient data exchange using **JSON** and implemented remote procedure calls via **JavaScript** and asynchronous programming.

**Fall 2022** — **Developer**, *Scalable Search Engine Project*, **Ask485**

- Constructed an Bing-like search engine with information retrieval concept of tf-idf and PageRank, and parallel data processing with **MapReduce**.
- Build an Index server, a **REST API** app that returns search results in JSON format.

**Winter 2023** — **Member**, *Human-Centered Machine Learning Project*, **Text Detoxifier**
[Github link: **Detoxifier**]

- Developed a supervised machine-learning model with attention mechanisms using **Pytorch** and "paradetox" dataset, targeting text detoxification.
- Applied encode-decode method, measured by Style accuracy, Fluency, and Content preservation.
- Achieved a score of 0.9875 in Style accuracy, which is obtained by using a pre-trained RoBERTa classifier to classify the outputs as toxic or non-toxic.