

Zhan Yu

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EDUCATION

University of California, Los Angeles (UCLA)

Dec. 2024 (expected)

Master of Engineering, **Artificial Intelligence**

Los Angeles, CA

- **Core Course:** Reinforcement Learning, Neural Networks and Deep Learning, Advanced Data Mining

University of Wisconsin-Madison

May 2023

Bachelor of Science, **Computer Sciences**

GPA: 3.86/4.0

- **Core Course:** Software Engineering, Data Structure and Algorithm, Artificial Intelligence, Operating System, Data Programming and Model, Programming III, DataBase, Computer Networks, Linear Algebra

PROFESSIONAL EXPERIENCES

Alibaba Group | **Software Engineer Intern**

June 2024 – Sept. 2024(expected)

- Developed 88VIP back-end system for Tmall shopping platform in **Java**, improved the user benefits module and product discount module, which ultimately led to a 3% increase in the number of registered members.

Huawei | **Software Engineer Intern**

Sept. 2022 – Dec. 2022

- Used **C++** to enhance WiFi availability by creating network detection on OpenHarmony OS for mobile/IoT
- Increased WiFi reliability by **33%** by **JavaScript/Android** to analyzed WiFi indicators' network performance

Trip.com Group | **Software Engineer Intern**

Jun. 2022 – Aug. 2022

- **Service Reliability Platform:** Built a fullstack platform by **Java, Javascript, Java & Spring** for whole company's service update verifications, reducing **40%** services downtime rate.
- Increased search recommendation results for users by **25%** by integrating various language features into the keyword-parsing module by **Java, MySQL and Redis**

NewsBreak | **Software Engineer Intern**

Apr. 2022 – Jun. 2022

- **Ad Account Management:** Boosted 50% efficiency by developing **Java-based** organizational modules, designed for streamlined account management, clarifying account oversight and simplifying operations.
- Used **JUnit** to ensure the reliability of the advertisement system, which increases test coverage by **70%**.

Bytedance (TikTok) | **Software Engineer Intern**

Nov. 2021 – Mar. 2022

- Presented **millions** of **TikTok** advertisers with advertising results divided by countries by building **HSQL** aggregation tasks in **Dorado** big data platform and using **ElasticSearch** to realize data storage/retrieval
- Built big data flow tasks, such as **spark streaming** and **hive2redis**, and improved data middleware resources by **Python** for advertisement data to better manage big data and provide better big data service.

SenseTime | **Software Engineer Intern**

May 2021 – Aug. 2021

- Built **backend RESTful API** to manage **2000+** taxi service (Uber-like) orders by **Java** and **MySQL**
- Developed **IOS** reservation app to allow **1000+** outsiders to reserve company visits & parking by **React**

SELECTED PROJECTS

News Recommendation System (Python, Machine Learning, NumPy, KNN) Jan. 2024 – May 2024

- Realized user rating prediction by implementing **KNN** using user-user collaborative filtering, evaluated with 10-fold cross-validation. Applied **NMF** for collaborative filtering, evaluated model performance by RMSE
- Engineered news articles recommendation by using **TF-IDF** vectorization to represent article content.

MediaMatch (Java, MongoDB, Kafka, Spring Cloud)

May. 2023 – Sept. 2023

- Built a Microservice Architecture platform for advertisers to sponsor and media outlets to search for ads
- Used **MongoDB** to increase advertisement data retrieval/storage speed by 25% by realizing Index Cache
- Utilized **Spring Cloud (Feign, Hystrix)** for fault-tolerant service calls to lower the service downtime rate

SKILLS

Languages: Java, Python, C/C ++, JavaScript, Golang, C#, SQL, HTML/CSS, Shell Script, Swift, Typescript, R

Frameworks: Spring Boot, React, MySQL, PostgreSQL, AWS, Azure, Android SDK, MongoDB, Kafka, Node.js

AI & Machine Learning: PyTorch, TensorFlow, Transformer, Diffusion, BERT, GPT, LSTM, CNNs, RNNs

Developer Tools: Git, Docker, Linux/UNIX, Visual Studio, Jenkins, GitLab CI/CD, JIRA, Maven, Tomcat