

QINGZHONG ZHOU

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OBJECTIVE

Enthusiastic and motivated Computer Science student seeking a SDE internship opportunity in Summer 2023.

EDUCATION

- **New York University** New York, NY
Bachelor of Computer Science *September 2019 - December 2023 Expected*
Courses: Artificial Intelligence, Operating Systems, Data Structures, Basic Algorithm, Data Management Analysis, Object-Oriented Programming

EXPERIENCE

- **DuoPeak** Menlo Park, CA
Data Engineer (Intern) *June 2022 - August 2022*
 - **Monitoring System:** Built, tested, and deployed a data pipeline using **Prometheus** that is allowed to display over **100k** game users' data from major data sources e.g. **Google Ads, Facebook Ads**, and also bring insights to the data team to analyze organic and non-organic data.
 - **Data Visualization:** Designed and published data metrics in production line that display result on **Grafana**, delivering solid metrics for data team to measure the user growth.
 - **Testing:** Developed scripts in **Python** with senior employees to upgrade simulate environment test for data pipelines, increased efficiency by **34%**.
- **Galaxy (Gelai) Technology** Wuhan, China
College Teaching and Research Assistant *May 2021 - August 2021*
 - **Course Design:** Established web-design teaching materials using **HTML, CSS, JavaScript** for computer science majors.
 - **Project Design:** Facilitated front-end development for a hospital management system using **Vue** with 20 college instructors.
 - **Documentation:** Wrote **10** feedback reports in order to develop and revise the curriculum for the benefit of future students.
 - **Impact:** Course has been taken by **2500+** students so far with **4.85** average rating.

PROJECTS

- **E-commerce Recommendation System:**
 - Constructed a item-based collaborative filtering suggestion system using **Spring** framework to recommend products to consumers in **Java**.
 - Developed a real-time recommendation service using **Spark Streaming**; Designed a cache component for streaming using **Kafka**; Received data collection requests from **Flume**.
 - Implemented **TF-IDF** algorithm to extract **UGC** calculated the cosine similarity between products.
 - Solved challenging issues in scraping data in **Redis**, increasing the efficiency of the system by **12%**.
- **Online Bubble Tea Ordering Application:**
 - Directed a beverage ordering application using **Object-Oriented Design** that allows customer to easily bill for bubble tea in **Swift**.
 - Implement the **MVC** design pattern, Developed code, system design and **Test/QA** plans for all solutions; Used the **JSON** format for server communication.
 - Reengineered ordering systems that fueled improvements to productivity for purchasing and reduced **In-App Purchase** time to **30s** in average which is **35%** faster than before.
- **Hospital Management System:**
 - Designed and implemented front-end modules using **JavaScript, HTML, CSS** on **Vue** framework; Applied **Element UI** to optimize user experience.
 - Added automatic reimbursement system by **REST APIs** with **Flask**; Reduced process time by **28%** for users.

PROGRAMMING SKILLS

- **Languages:** Java, Python, C, C++, Swift, SQL, HTML, CSS, \LaTeX
- **Frameworks/Tools:** Git, NodeJS, VueJS, AWS, Pandas, MongoDB, Prometheus, React, Kafka, VScode, JetBrains
- **Soft Skills:** Leadership, Public Speaking, Event Management, Documenting, Time Management