QINGZHONG ZHOU

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OBJECTIVE

Enthusiastic and motivated undergraduate Computer Science student seeking an internship opportunity in Summer 2023.

EDUCATION

- **New York University** — New York, USA
  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** — Mountain View, 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** data from major data sources e.g. **Google Ads**, **Facebook Ads**, and also bring insights to the data team with to do analytic in organic and non-organic data.
  - **Data Visualization**: Designed and published data metrics in production line that display result on **Grafana**.
  - **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 over 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**, increased the efficiency of the system by **12%**.

- **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.

- **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; Reduced **In-App Purchase** time to **30s** in average which is **35%** faster than before.

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