Jingyu Tang

GHC '23 | Providence, RI | +16087337355 | jingyu_tang@alumni.brown.edu |
linkedin.com/in/jingyu-tang-8bb457252

Education

Brown University   *Sep. 2022 - May 2024*
Sc.M. in Computer Science; GPA: 4.0/4.0   Providence, RI
T.A. in CSCI 1260 Compiler and CSCI 1952Q Algorithmic ML
Relevant Courses: Advanced Database, Privacy Systems, Network, Compiler, Computer Systems, Blockchain

Case Western Reserve University   *Aug. 2019 - May 2022*
B.A. in Computer Science and Mathematics; GPA: 3.94/4.0   Cleveland, OH
Awards: The Webster Godman Simon Mathematics Award; Summa Cum Laude
Relevant Courses: Software Engineering, Database, Computer Security, Data Mining, Machine Learning

Work Experience

SDE Intern spec. in Data Engineering   *May 2023 - July 2023*
Expedia Group   Austin, TX
- Constructed and integrated real-time and batch **concurrent data pipelines**, enabling daily and weekly analysis of approximately **75k** real-time booking events as the source-of-truth for EG-wide business intelligence operations
- Collaborated actively with the core **DevOps team** of 5, adhering to **Agile Scrum** methodology, to conclude the design and develop the architecture, schema, UML, etc.
- Developed the processor with **Spring Boot**, achieving **94%** unit test coverage, and persisted data in **Elasticsearch** and **Amazon S3** buckets
- Deployed **Apache Kafka** topology, schema, streams, producers and consumers to consume incoming data and publish processed events with latency below **50ms**

SDE Intern   *July 2022 - Aug. 2022*
Industrial and Commercial Bank of China   Remote
- Designed a full-stack data lineage application, supporting data governance with approximately **20k** daily events, focusing on parsing SQL tasks into a visually intuitive lineage map at the metadata level
- Engineered a robust tech stack, including **Spring Boot** as the framework, **Druid** as the SQL tasks monitor, Druid SQL Parser as the SQL and lineage parsing tool, and **Neo4j** as the lineage database management
- Programmed an interactive front-end with data visualization capabilities, employing **Vue.js** and **Neovis** for an engaging user experience

Projects

IP TCP Protocols   *Sep. 2023 - Dec. 2023*
- Constructed a virtual link layer interface with UDP sockets, network and transport layers using **Go**.
- Implemented key RFC-compliant TCP functionalities such as the sliding window protocol, slow start, and retransmission, ensuring reliable data transmission in lossy environments.

Distributed Blockchain Protocol   *Jan. 2023 - May 2023*
- Developed a fast and scalable blockchain server embedded with a **distributed system**, implementing a distributed system to facilitate seamless trading across multiple users
- Established a robust and thread-safe server and database using **Go**, ensuring the safety and promptness of trading operations

Skills

Programming Languages: Java, Python, OCaml, SQL, Go
Frameworks and Tools: Spring Boot, Git, Apache Kafka, Elasticsearch, Apache Spark, Amazon S3, Datadog, GitHub Actions, Splunk