

# CHI ZHANG

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## EDUCATION

New York University	MS in Computer Science	GPA:3.50/4	Sep. 2023 – Jan. 2025
Tianjin University	BS in Construction Management	GPA:3.81/4	Sep. 2018 – Jun. 2023

## TECH STACKS

**Languages** : C/C++, Java, Python, JavaScript/TypeScript, Kotlin, Rust, SQL

**Front End** : Vue.js, React.js & React Native, HTML/CSS

**Back End**: Spring Boot, Node.js, Django, Netty

**Data** : Redis, PostgreSQL, MongoDB, Hadoop, Spark

**Others** : Kubernetes, Docker, Kafka, GRPC, Jenkins

**Certificates**: AWS Certified Developer Associate (DVA-C02)

## WORK EXPERIENCE

**Paypal** May 2024 – Aug 2024

*Software Engineer Intern (Distributed Systems and Cloud Computing)*

- Developed a B2B backend service using **Kotlin** and **Spring Boot** to calculate and deduct transaction fees and generate compliance reports for PayPal's global merchants who use Paypal as billing gateway.
- Implemented efficient **Kafka** message producers, ensuring accurate processing of transaction events. Utilized Kafka proxies within **Kubernetes** to facilitate distributed Kafka node operations and enhance system stability.
- Optimized the data processing logic for transaction verification, settlement, chargeback, and audit compliance with a newly designed multiple **Airflow** DAGs for efficient scheduling of **Spark** jobs,
- Scripted the migration of partial data tables from **AWS S3** to **GCP Cloud Storage** using **Scala**, aligning with the team's strategy to transition to the GCP platform.

**ByteDance** Mar 2022 – Aug 2022

*Software Engineer Intern (Ads Anti-cheat)*

- Participated in large-scale user activity data processing (300GB/day), responsible for data acquisition, cleansing, and offline deployment detection. Utilized **Hadoop** and **Spark** to provide an robust foundation for anti-fraud model training.
- Collaborated closely with the anti-fraud algorithm team, focused on data preparation and algorithm A/B tests to support the optimization of anti-fraud strategies. Assisted in the development of training data-lake.
- Developed a real-time data processing and streaming platform using **Flink** and **Kafka**. Focused on implementing and debugging a specific module within the Kafka-based streaming service, which was designed to identify sudden spikes in ad clicks from individual users, suggesting potential click fraud.

**Qihoo 360** Jul 2021 – Oct 2021

*Software Developer Intern (IoT & Cloud)*

- Assisted in integrating **Restful APIs** for the smart camera data platform on the company's cloud platform. Focused on connecting the platform with **internal cloud APIs** to streamline data flow.
- Developed logic module archetypes in **Python** to test the functionalities of the smart camera system. Engaged in quality assurance by writing unit tests using **PyTest**. Ensured the robustness of secondary logic modules.

## PROJECTS

**ShareYourPics** 🗣️ | *MEAN - MongoDB, Express, Angular, Node.js* Jan 2024

- Built a web app's capabilities by enabling users to share memorable moments through images and descriptions.
- User Authentication: Implemented secure login and signup functionalities using **JSON Web Tokens (JWT)** for handling authentication and session management.
- Image Uploads: Used Multer middleware to handle multipart/form-data, enabling users to upload images and posts.
- RESTful API**: Developed a scalable and maintainable backend architecture with **Express.js**, providing a seamless data flow between the frontend and **MongoDB**.

**Scomazon E-commerce Project** 🗣️ | *Fullstack, Distributed - My Tech Odyssey Distilled :)* Oct 2023

- Developed a **Vue.js** front-end and **SpringBoot** back-end with **Nginx**. Utilized **SpringCloud Gateway** and **Nacos** for dynamic microservices routing and discovery.
- Managed distributed transactions with **Seata**, optimizing performance using **Redis** and a scalable **MySQL** database.
- Implemented a **RabbitMQ**-based message architecture and **Elasticsearch** for search, with **OSS** for cloud storage.
- Created a CI/CD pipeline with **GitHub**, **Docker**, and **Jenkins**, using **Kubernetes** for microservices orchestration.

**E-Commerce Data Warehouse** 🗣️ | *Big Data Processing & Visualization* Aug 2023

- Designed a multi-layered data warehouse with ADS, DWS, DWD, and ODS for structured data handling and analysis.
- Orchestrated data collection and transmission using **Flume**, **Kafka**, **DataX**, **Maxwell**, **Sqoop**, and **Logstash**.
- Devised data solutions incorporating **MySQL**, **HDFS**, **HBase**, **Redis**, and **MongoDB** for data retrieval.
- Executed complex data computations and processing using **Hive**, **Spark**, **Flink**, **Storm**, and **Tez**.
- Set up task scheduling and cluster coordination with **DolphinScheduler** and **Zookeeper**, and monitored system performance using **Zabbix** and **Prometheus**.