

# Jiamu (Jane) Xie

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## Education

University of California San Diego	M.Sc. Computer Science	GPA: 3.9/4.0	Sep 2023 – Dec 2024
Wuhan University	B.Sc. Computer Science	GPA: 3.7/4.0	Sep 2019 – Jun 2023

## Technical Skills

**Languages:** Java, Python, C, C++, JavaScript, TypeScript, Golang, SQL, HTML, CSS, Bash, Lua

**Web Development:** Spring, FastAPI, GraphQL, Django, Spark, Node.js, React, Next.js, Vue, React Native, Express.js, Redux

**Cloud and Databases:** AWS, GCP, Azure, Jenkins, Ansible, Docker, Kubernetes, Redis, MongoDB, PostgreSQL, MySQL

**Systems and Tools:** Git, Linux, Prometheus, Grafana, Sentry, ELK stack, postman, pytest, swagger, selenium

## Work Experience

### Trade Terminal (Cryptocurrency Hedge Fund) Jun 2024 – Sep 2024

Software Engineer Intern

San Jose, CA

- Optimized a High Frequency Trading system, using shared memory, multi-threading, and parallel computing with C++ and internal SDKs, enabling low latency trading across 20 exchanges with up to 300 transactions per second.
- Utilized **AWS Kinesis** to collect and **AWS Firehose** to deliver the real-time streaming data from 70 crypto exchanges to **AWS S3** via **WebSocket** at speed of 300MB per minute.
- Enhanced the parallel stream processing framework for blockchain trading data analysis. Accelerated data processing speed by 40% using **AWS Glue** and **Spark** with **Python**.
- Led a team of 3 interns to build a telegram-based savings platform with **FastAPI**, **GraphQL** for back-end, **MongoDB** for database. Achieved 100% code coverage by implementing unit tests and end-to-end tests with **pytest**.
- Built a **CI/CD** pipeline using **Jenkins** and **Ansible**, reducing deployment time to **AWS ECS** by 50%.

### HeartByte AI (Y Combinator Winter 2024)

Feb 2024 – Jun 2024

Software Engineer Intern

San Francisco, CA

- Built a Generative AI assisted fiction writing platform, using **React**, **Next.js**, **TypeScript**, **NextUI**, **tailwind CSS**, and **Framer Motion** for front-end, **Google Cloud Firebase** for back-end, and **Google Cloud Firestore** for database.
- Designed and developed the fiction writing page with **draft.js**, enabling seamless collaboration with AI co-pilot and copyright protection watermark, boosting writing efficiency by 70% and active writing time by 50%.
- Utilized **selenium** for web crawler to fetch target user metadata for advertising purpose, doubling user growth speed.
- Acted as **scrum** master for **agile** development and owned communications for team progress and blockers.

### Tencent Cloud (Top 10 Tech Company in the World)

Sep 2023 – Feb 2024

Software Engineer Intern

Remote

- Enhanced the Service Framework, a PaaS platform for lifecycle management and data-driven support of applications, expanding features by 30% using **Golang**, **go-micro**, **gorm**, **ceph**, internal SDKs, etc.
- Streamlined user experience by integrating advanced cloud solutions into Tencent Cloud Marketplace, enabling seamless deployment of third-party tools and services for application development, extension, and operation.
- Integrated **Consul**, **etcd**, and **Nacos** for service discovery and config management, **Jaeger** and **OpenTelemetry** for distributed tracing, **Hystrix** for circuit breaking, **Ratelimit** for rate limiting, **ElasticSearch**, **LogStash**, **Kibana**, and **Filebeat** for logging, and **Prometheus**, **Grafana**, and **Sentry** for performance monitoring and error tracking.
- Developed an internal-tool for a team of 11 developers to generate \*.proto and \*.go directly from the **SQL** schema.
- Achieved the top contributor status consistently in the Service Network's Git repository during the internship.

### Peking University, Institute for Computing and Digital Economy

May 2023 – Sep 2023

Software Engineer Intern

Remote

- Built an E-library that scaled from 0 to 50k active users within 1 month using **Vue** for front-end, **Spring Boot**, **Hibernate**, and **Spring Data JPA** for back-end, **PostgreSQL** for database.
- Implemented an API Gateway with **Zuul** for dynamic routing, authentication, and security, utilizing **Nginx** for reverse proxy and load balancing, **Tomcat NIO** for servlet container, and **Sentinel** for circuit breaking and rate limiting.
- Built distributed microservices with **Spring Cloud**, incorporating **gRPC** for inter-service communication.
- Developed a data pipeline to integrate disparate source files to **MySQL**, leveraging **RAG** with **LangChain**, **Apache POI** for parsing, **Google Cloud Vertex AI** and **OpenAI** for LLM, achieving 95% accuracy rate, enhancing data integrity.

### Ruili NBO Information Technology

May 2022 – Sep 2022

Software Engineer Intern

Remote

- Spearheaded the Human Resource module development of an enterprise resource planning system serving 50 companies, with **React Native**, **Redux**, and **Hooks** for mobile front-end, **Node.js**, **Express** for back-end RESTful APIs.
- Optimized Role-Based Access Control utilizing **JWT** for cross-domain authentication, reducing average response time by 80% to 30ms through **Redis** caching and **Lua** scripts.
- Achieved high availability and scalability via **Docker** for containerization, and **Kubernetes** for cluster management.