Evan Zheng

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EDUCATION

University of Illinois at Urbana-Champaign — Expected May 2025
Master of Computer Science

Fudan University — June 2023
Bachelor of Science in Computer Science

SKILLS

Languages	Java, Python, Go, JavaScript, SQL and C++.
Cloud & Data	Kubernetes, Kafka, Hadoop, Spark, AWS (EC2, S3, RDS, Lambda), Docker, gRPC and Thrift.
Database	MySQL, PostgreSQL, MongoDB, DynamoDB, Redis, Elasticsearch, Hive and Neo4J.
Web Dev	Spring Boot, Go Gin, Node.js, Django, Flask, React, Angular, Hibernate and MyBatis.

WORK EXPERIENCE

Schneider Electric — Aug 2023 - Jan 2024
Full Stack Software Engineer Intern — *Industrial Automation(IA) Team*

- Enhanced MQTT message processing throughput by **45%** within a **Spring Boot** IoT platform by leveraging **Protobuf** for efficient serialization and **Kafka** as a resilient buffer layer between **Netty** and backend core.
- Built a high availability compute cluster using **Kubernetes** and **KubeEdge** on 20+ ARM compute units which controls the industrial customized hardware, leading to a **50%** reduction in time to recovery from failures.
- Developed a backend application in **Go**, utilizing client-go for parsing kubeconfig, and implemented **RESTful** API requests to securely interact with **Kubernetes** clusters with exponential backoff retry mechanisms.
- Utilized **Angular** Material for intuitive UI components to develop pages that display real-time status of K8S clusters.
- Set up **GitLab** Runner to automate the deployment through **CI/CD** scripts, cutting deployment time significantly.

Meituan — Jun 2022 - Sept 2022
Backend Software Engineer Intern — *Shanghai, CN*

- Developed and maintained Meituan's CRM system, supporting over **10,000** sales users, with **Spring Boot** and **MySQL**.
- Improved the CRM system's responsiveness by establishing asynchronous order dispatch with **Spring Batch**, storing submissions in **MySQL** for minute-based scheduled processing.
- Cut downstream service invocations by **25.5%** in sales personnel certification workflows during **Canary Releases**, by devising a JSON-based marking rule on a cloud config platform, enforced through a Java parser.
- Independently conducted 5 phased releases using MDP **CI/CD**, ensuring seamless deployment and minimizing impact.
- Participated in on-call duties and cross-team integration testing to resolve user-reported issues, showcasing effective **coordination** and **communication** skills.

Fudan Intelligent Systems Lab — Sept 2021 - Jun 2022
Research Assistant & Software Developer — *Shanghai, CN*

- Employed **Spark** DataFrames to streamline the KONECT dataset's preprocessing workflow, achieving a **30%** reduction in data processing time for Laplacian matrix computations on multi-million node graphs.
- Seamlessly integrated **Sigma.js** with **React** to enhance social network visualization, utilizing **Neo4j** for efficient graph data management and dynamic, interactive graph rendering.
- Developed a topology-selection algorithm that is 40% more efficient using **Julia** and **Pandas**, leveraging linear system solvers and random walk simulations for optimal opinion analysis in networks exceeding 100,000 nodes.

SELECTED PROJECTS

Burger Crypto(GitHub page) — Feb 2024 - May 2024

- Developed a dynamic **React** UI for a crypto trading platform, enhanced with AntD for responsive, real-time simulations.
- Crafted a high-performance **Node.js** backend with RESTful APIs interfacing with the Coins-API for real-time crypto trading and data display.
- Optimized **MySQL** database with strategic indexing and Stored Procedures for efficient portfolio management.
- Orchestrated the deployment using **Nginx** on **GCP** with **Cloudflare** integration for enhanced security, involving DNS configuration and SSL/TLS setup.