John Jiang
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SUMMARY

Senior Software Engineer with 10+ years of expertise in **distributed systems**, **IoT architectures**, and **cloud-native solutions** for Fortune 500 companies (Tesla, Citibank) and startups. Proven track record in:

- Designing **low-latency, event-driven systems** using Go, Kafka, Redis, and Kubernetes
- Building **scalable IoT platforms** for automotive/energy sectors with AWS/Ali Cloud
- Leading cross-functional Agile teams to deliver **mission-critical infrastructure**
- Optimizing **cloud-native CI/CD pipelines** (Jenkins, ArgoCD, Helm) and **MLOps**

TECHNICAL SKILLS

Languages: Go (Gin, gRPC, Goroutines), Python (FastAPI, Flask), SQL
Cloud & DevOps: AWS (EC2, EKS, CloudWatch), Kubernetes, Docker, Terraform, Prometheus/Grafana
IoT & Distributed Systems: Kafka, Redis, MQTT, AVRO/JSON serialization, NVIDIA GPU/Volcano scheduler
Databases: Postgres, MySQL, DynamoDB, Milvus, Spark
Tools: GitLab CI/CD, Jenkins, GitHub Actions, Kafka Streams

WORK EXPERIENCE

D3 Cyber Security | Vancouver

Senior Python Developer (Scalability Team) | *2024/07 – 2024/09*

- Redesigned a **low-latency D3-Executors service** (Python/FastAPI) with dynamic library imports, achieving 4x RPS improvement (95th percentile).
- Deployed **production-grade Kubernetes operators** for security playbooks, ensuring 99.99% uptime during peak loads.

Tesla – Energy Department | Shanghai

Senior Golang Developer (ML/Kubernetes DevOps) | *2023/09 – 2024/04*

- Designed **IoT messaging protocols** for EV charging systems using AVRO/JSON serialization, enabling real-time communication between 50k+ devices and cloud platforms.
- Built **distributed Go services** (HTTP/gRPC) with Redis caching and Kafka event streaming, reducing latency by 40% for energy management workflows.
- Led Kubernetes deployment of **ML autopilot models** on NVIDIA GPUs using Volcano scheduler, improving inference speed by 3x.

Kyligence & Gaussian Robotics | Shanghai

Go/Python Developer (Big Data/IoT) | *2021/09 – 2023/09*

- Architected a **high-performance IoT emulation service** using Go (Gin, gRPC) and Kafka, resolving engineering discrepancies between ML and cloud teams (+30% integration efficiency).

- Optimized AWS/Ali Cloud costs by 20% via Kubernetes resource management and auto-scaling policies.
- Implemented **event-driven data pipelines** with Spark and Redis, processing 10M+ daily IoT sensor events.

PwC Global Software Accelerator | Shanghai

Node Full Stack Developer & Team Lead | *2017/03 – 2021/09*

- Delivered a **fraud detection microservice** (Go/gRPC) with ArgoCD and Prometheus monitoring, reducing false positives by 25%.
- Mentored junior engineers on **distributed system design** and CI/CD best practices.

EDUCATION

M.Sc. in Cybersecurity | New York Institute of Technology, Vancouver | *2024–2025*

- Thesis: *Kubernetes Network Security for Automotive SDVs*
- Relevant Coursework: Cryptography, Cloud Security, IoT Protocols

B.Sc. in Economics (IT Minor) | Northeastern University, China | *2004–2008*

PROJECTS

AWS IoT Core for Intersoul Dating App | Go, Kafka, EKS

- Built a **scalable backend** for 100k+ users using Go microservices, Kafka event streaming, and Milvus vector DB.
- Reduced API latency to <50ms via Redis caching and Kubernetes horizontal pod autoscaling.

Tesla Autopilot ML Platform | Python, BentoML, Kubernetes

- Deployed **GPU-accelerated ML models** in production using Volcano scheduler, achieving 200ms inference times.

SOFT SKILLS

- **Collaborative Leadership**: Led 5+ cross-functional teams (DevOps, ML, QA) in Agile environments.
- **Production Resilience**: Managed on-call rotations for critical systems; resolved 50+ Sev1/Sev2 incidents.

Alignment with R | V Tech Values

- **Innovation at Scale**: Built Tesla's EV charging IoT architecture supporting 1M+ daily transactions.
- **Global Impact**: Reduced energy waste by 15% via intelligent ML-driven systems at Tesla.
- **Engineering Excellence**: Advocate for **first-principles thinking** in distributed system design.