

# Ran (Eddie) Dang

Staff Software Engineer & Technical Leader

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**Location:** Singapore | **Open to:** Singapore, North America (I-140 Approved, Visa Sponsorship Required)

## SUMMARY

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- **Technical Leadership:** 8+ years leading agile engineering teams at hyper-growth companies (TikTok, OKX). Strategic problem solver who transforms ambiguous challenges into scalable solutions while mentoring engineers and driving engineering excellence.
- **Web3 & DeFi Expertise:** Deep hands-on experience building DeFi protocols, on-chain price discovery systems, and cross-chain liquidity optimization. Passionate about decentralized finance and blockchain infrastructure.
- **Restless Builder:** Constitutionally unable to stop tinkering. In the past year alone, shipped 5 side projects spanning multi-agent orchestration, quantitative trading, and developer tooling—all built with AI as a force multiplier. The new currency is adaptability, not pedigree.

## INDUSTRY PROFESSIONAL EXPERIENCE

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### Staff Engineer/Tech Leader, OKX Singapore

July 2024 – Present

*Web3 Application Architecture Team/Site Reliability Engineering Team*

*Singapore*

- **0-to-1 SLO Platform:** Researched, designed, and shipped a comprehensive Service Level Objective system from scratch—data pipelines, metrics aggregation, alerting, and dashboards—now the reliability backbone for 1000+ microservices across CeFi and DeFi products.
- **Reliability at Scale:** Architected topology-aware anomaly detection and a 5-minute RCA system, transforming incident response from reactive firefighting to proactive, automated resolution across billions in daily trading volume.
- **DeFi Price Discovery:** Led optimization and performance tuning of an industrial-grade on-chain price discovery engine integrating 300+ DEX protocols and 5M+ token pairs; enhanced pathfinding algorithms to compute optimal liquidity routes, directly improving user execution prices and platform competitiveness.
- **Engineering Leadership:** Lead a team of 3 senior engineers with a hands-on, problem-solving culture; established rigorous code review protocols and technical planning frameworks to drive engineering excellence.

### Staff Software Engineer, TikTok Ltd.

Jan. 2023 – July 2024

*E-Commerce Content Trust Safety Governance Team*

*Singapore*

- **Global Platform Scale:** Strategic Technical Lead for the Content Moderation Platform, enabling the safe global expansion of TikTok Shop by building scalable governance mechanisms adapting to multi-country regulatory compliance.
- **Architectural Agility:** Engineered a comprehensive event-driven governance strategy platform from 0-to-1, providing the flexibility required to launch into new markets with minimal engineering overhead.
- **Data-Driven Strategy:** Unlocked the strategic value of safety data by championing a parallel risk measurement system, providing leadership with real-time visibility into content risk levels and informing key business decisions.
- **Team Culture Construction:** Established the team's engineering culture from the ground up, defining development specifications and quality gates that sustained high-velocity feature delivery.

### Senior Software Engineer, Meituan Inc.

Aug 2021 - Jan 2023

*Mobike CRM Department*

*Beijing, China*

- **Digital Transformation:** Led the digital overhaul of Mobike's operational infrastructure, building high-throughput operating systems that optimized the efficiency of thousands of offline partners.
- **Operational Excellence:** Streamlined vehicle operator scheduling and personal management through robust system design, directly reducing operational friction and costs for the cycling business unit.

### Senior Software Engineer, YuanFuDao

May 2019 - Aug 2021

*Zebra Engineer Tutor Service*

*Beijing, China*

- **Scale Enablement:** Scaled the tutor efficiency platform to support 20,000+ simultaneous users, acting as a force multiplier for the education business's rapid headcount growth.
- **Technical Strategy:** Directed technical strategy for the infrastructure team, bridging the gap between business goals and technical implementation through RFC leadership and stakeholder management.

### Software Engineer, Meituan Inc.

July 2016 - May 2019

*Local Service Department*

*Beijing, China*

## BUILDER'S MINDSET

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In this era, the barrier to building has dissolved. What matters now is not credentials or years of experience, but the restlessness to keep tinkering—treating every new tool as a puzzle to solve before the day is over. I build compulsively: multi-agent orchestration systems (published on PyPI), AI skill package managers (open source, 10+ runtimes), quantitative trading systems coordinated by autonomous AI departments (Rust + Python, testnet-ready), options portfolio managers, and physics-based simulators—all driven by curiosity and the belief that the best way to understand the future is to build it. See my portfolio for details.

## EDUCATION

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**Beijing Institute of Technology**

*Bachelor of Science, Internet Of Things, Computing Academy*

Beijing, China

*2012 - 2016*

## EXPERTISE

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**Languages:** Java (JVM tuning & deep internals), Go, Python, Javascript, Solidity

**Backend & Data:** Spring, Flink, Kafka, ElasticSearch, MySQL, PostgreSQL, Redis, PyTorch

**Infrastructure:** Docker, Kubernetes, AWS, GCP, Grafana, Prometheus, InfluxDB, Kibana, Splunk

**AI Workflow:** Claude (MCP, multi-agent orchestration)

**Soft Skills:** Cross-functional Collab, Project Management, **Bilingual (English/Mandarin)**, **Golf (Handicap 20)**