

# Andrew Dong

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## PROFESSIONAL EXPERIENCE

### Capital One | *Principal Associate Software Engineer*

New York, NY | 2023 - 2025

- *Summary:* Led cloud cost optimization initiatives, architecting automated resource management solutions that saved \$120M over two years by improving efficiency and visibility in cloud deployments.
- Redesigned a critical API service (OptiCloud), implementing query guardrails and an exchange-based YAML configuration system to enhance security, resilience and maintainability.
- Developed a high performance API orchestrator, optimizing request sequencing, retries and failover handling to reduce failure rates, lower latencies, and improve data consistency.
- Built and launched a real-time cloud cost analytics dashboard, integrating TypeScript, Angular, and Go-based APIs to provide teams with granular cost tracking and forecasting.
- Defined cloud efficiency strategy, driving cross-functional adoption of best practices to reduce waste and implement scalable cost-saving measures.

### Rubrik | *Senior Software Engineer*

Palo Alto, CA | 2021- 2023

- *Summary:* Designed and scaled cloud data management platforms using Scala, GoLang, Python, and TypeScript, supporting backup and recovery for 5000+ enterprise customers at a \$500M ARR company.
- Led a team of six to enhance data backup visibility, architecting multi-archival location support and optimizing MySQL-backed metadata indexing.
- Achieved an 8x performance boost on a mission-critical metadata sync service by optimizing gRPC batching, implementing intelligent caching, and refactoring database connections.
- Built and trained a globally distributed 24/7 on-call team of 12, ensuring reliability for a revenue-critical Reports service.

### SuperAlert | *Software Engineer*

New York, NY | 2020

- *Summary:* Developed an IoT alert monitoring platform for 300+ sensors using MQTT, Telegraf, InfluxDB, AWS and Grafana, enabling real-time telemetry analysis at scale.
- Led firmware optimizations in C to extend sensor lifespan by 20x, resolving systemic inefficiencies in transmission protocols and mitigating supply-chain disruptions.

### Limitless Ventures | *Technical Contributor*

New York, NY | 2019 - 2020

- *Summary:* Engineered performance, security, and accessibility enhancements for a recovery-focused venture capital platform, improving site reliability and user experience.

## EDUCATION

### University of Chicago | *Mathematics, B.A.*

- *Awards:* IMC International Math Competition Finalist, Dean's List, US Presidential Scholar

### Recurse Center | *Software Engineering Residency (2025)*

- Selected for a self-directed engineering program doing low-level computing using CUDA, Rust and C.

## KEY STRENGTHS & TECHNICAL SKILLS

**Languages & Frameworks:** Python | Go | Scala | Ruby | Typescript | Rails | React (Native)

**Databases & Platforms:** PostgreSQL | MySQL | Cassandra | InfluxDB | AWS Solutions Architect | GCP | Docker | Kubernetes

## LEADERSHIP, VOLUNTEER WORK & ADDITIONAL INTERESTS

Michelin 2 Star Chef at *Daniel* | 2-Time Half Ironman | Mandarin Chinese | BigVision Nonprofit Board Member | Mentorship