

Kevin Dong

dong.kevin1@gmail.com
Phone # available on request
US Citizen

www.kevindong.net
github.com/kevindong
linkedin.com/in/dong70

Work Experience

5/22– **Senior Software Engineer**, *Datadog*, Remote (Chicago, IL).

- Worked on real-time metrics data ingestion and query service used on all recent metrics data (Mork), including virtually all alerting/monitoring evaluations. Ingests trillions of datapoints a day and responds to queries for said datapoints at high scale and availability. Service is primarily built in Rust.
- Cross-functionally collaborated with teams across Metrics, Query, and Alerting orgs to design, implement, and deliver improved alerting/monitoring reliability to end-customers during internal incidents
- Proposed and implemented CPU throttler that effectively eliminated an entire class of previously frequent (1-2 times per week) incidents and source of on call burden
- Designed and achieved metrics-wide adoption of a shared, programmatic understanding of query prioritization. Previously, each team would locally decide priorities, which frequently clashed between services and lead to excess query failures.

1/21–5/22 **Software Engineer**, *Bloomberg*, New York, NY.

- Developer on the Latin American Feeds & PFCOs team. Team is responsible for connecting to Latin American stock exchanges and certain non-stock-exchange-firms, parsing data, and sending structured data to downstream Bloomberg teams. Work is primarily in C++ and Python.
- Modernized (i.e. rewrite or incrementally improve) legacy market data parsers to increase reliability and meet internal quality/behavioral standards

6/19–1/21 **Software Engineer**, *Squarespace*, New York, NY.

- Built a distributed, fault-tolerant, and horizontally scalable data deduplication Java microservice capable of processing >25,000 events/second in collaboration with a data engineering team; service leveraged Kafka transactions and partitions to shard incoming events into the microservice hosted on Kubernetes
- Reduced processing times by 90% for certain critical operations in Praetor (an internal Go gRPC microservice for A/B testing and feature flagging) while improving reliability and safety; evangelized Praetor to other teams and orgs within the company
- Built a blackbox monitor in Go to measure the reliability and responsiveness of Praetor and to output metrics to Prometheus/Grafana with new alerting functionality
- Held primary responsibility for monitoring and responding to issues arising in production for the company's main traffic-serving system (along with all systems/services owned by my team) during on-call shifts; also provided support for other engineers

Summer 2018 **Software Engineering Intern**, *Capital One*, McLean, VA.

- iOS developer in consumer banking business
- Prototyped an iOS app in Swift that interfaces with internal APIs/microservices
- Sourced and utilized an open source library for interacting with a Go server via WebSockets

Summer 2017 **Associate Software Engineer Intern**, *Clarity Partners, LLC*, Chicago, IL.

- Developer on the Chicago Police Department team using C# with ASP.NET MVC and Oracle SQL
- Rewrote multiple data warehouses search applications (originally in Visual Basic) using ASP.NET MVC
- Analyzed, architected, and rewrote web application (originally in Perl) for police lineups. Police lineups are a series of mugshots shown to a victim/witness of a crime wherein the victim/witness will point out a suspect. This process, if conducted fairly, is admissible evidence in court. Work includes database layer, web UI, everything in between, and a robust audit log system.

Technical Skills

Roughly listed in order from best to good (1 = best; 8 = good).

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| 1. Go | 4. Kafka | 7. SQL |
| 2. gRPC | 5. Kubernetes | 8. Java |
| 3. Rust | 6. Python | |

Education

May 2019 **Bachelor of Science in Computer Science**, *Purdue University*, West Lafayette, IN.
Software Engineering track. Appeared on Dean's List 7 times.

GPA: 3.75/4