Kevin Dong

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US Citizen

Work Experience

1/21– **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).

1. Go
2. Kubernetes
3. gRPC
4. Python
5. SQL
6. Kafka
7. Java
8. JavaScript/Node.js

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

Selected Personal Projects

Fiscus A portfolio tracking website built to fulfill the senior software engineering project requirement. Designed, architected, and built a web application using Bootstrap, Node.js, Postgres, and Redis in an agile team environment. Featured as one of the best senior projects for the Spring 2018 semester. `https://www.cs.purdue.edu/news/articles/2018/cs407-project-spotlight.html`

MarketWatch API An unofficial Python wrapper for programmatically interacting with the stock trading game hosted on MarketWatch. Analyzed and reverse engineered the MarketWatch website to create a lean, robust, and well-documented wrapper. See `https://www.github.com/kevindong/MarketWatch_API` for details.