

Kevin Dong

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www.github.com/kevindong

Work Experience

- 6/19– **Software Engineer**, *Squarespace*, New York, NY.
- o 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
 - o 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
 - o 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
 - o 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.
- o iOS developer in consumer banking business
 - o Prototyped an iOS app in Swift that interfaces with internal APIs/microservices
 - o 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.
- o Developer on the Chicago Police Department team using C# with ASP.NET MVC and Oracle SQL
 - o Rewrote multiple data warehouses search applications (originally in Visual Basic) using ASP.NET MVC
 - o 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.
- 5/16–5/17 **Student Developer**, *Krannert Computing Center–Purdue University*, West Lafayette, IN.
- o Full stack developer on ASP.NET MVC web applications used University-wide.
 - o Automated tedious and error-prone processes to achieve time savings of >90%.
 - o Implemented scheduling appointment capability in a calendar utility used University-wide.

Technical Skills

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

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

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.

Misc.

- Citizenship USA