Kevin Dong

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Work Experience

6/19– **Software Engineer**, *Squarespace*, New York, NY.
- Reduced processing times by 90% for certain critical operations in a Go gRPC microservice while improving reliability and safety
- Built a blackbox monitor in Go to measure the reliability and responsiveness of a gRPC microservice and to output metrics to Prometheus/Grafana with new alerting functionality; deployed monitor in Kubernetes
- Built a gRPC client in Python that is at feature parity with gRPC clients in other languages

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.

5/16–5/17 **Student Developer**, *Krannert Computing Center–Purdue University*, West Lafayette, IN.
- Full stack developer on ASP.NET MVC web applications used University-wide.
- Automated tedious and error-prone processes to achieve time savings of >90%.
- 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).

1. Go
2. gRPC
3. Python
4. SQL (MS, Oracle, Postgres)
5. Java
6. C# with ASP.NET MVC
7. JavaScript/Node.js
8. iOS (Swift)
9. Frontend Web Development

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 United States of America