

Peixian Wang

http://malloc.dog

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EXPERIENCE

- **Bloomberg L.P.** New York, NY
Senior Software Engineer *October 2018 - Present*
 - **NLP:** Working on real time natural language processing systems on the Dialogue Understanding team.
 - **Multi-Asset Risk Systems:** Worked on risk management tools and pricing for financial derivatives (CDS, XVA, Collateral, etc).
 - **Cassandra Datastore:** Architected and built a distributed datastore service backed by Cassandra scaled across three physical datacenters, with over 5 million writes per min.
 - **Resource Allocation & Scheduler :** Wrote an internal job allocation manager based off of k8s disruption budgets, enabling efficient distribution of load across across hundreds of physical machines.
 - **Mentoring on Solr Search:** Mentored and helped intern to deliver a Solr based project that powers a Zipkin compatible distributed trace.
- **Datadog** New York, NY
Golang Developer *March 2018 - October 2018*
 - **Golang Data Ingest:** Built data ingestion services for Amazon Web Services, Google Cloud Platform, and Microsoft Azure to intake monitoring data across all cloud product offerings.
- **Vimeo** New York, NY
Backend Engineer, Upload *October 2016 - March 2018*
 - **Python Video Pipeline:** Wrote and maintained an event-driven Python video delivery pipeline. Enabled seamless failover of video uploads from GCP to AWS during outages.
 - **tus/tusd:** Contributed to an open source protocol and Go implementation for file uploading and the golang server & client implementations.
 - **K8s Migration:** Led the effort to migrate the video upload pipeline from a PHP app running to k8s.

FREELANCE WORK

- **Tokamak Software LLC** Remote
Founder *April 2018 - Present*
 - **Consulting:** Consulted for various companies on a part-time basis to build a variety of products.
 - **Technical Interviewing:** Contracted with Karat to provide technical interviews as a service.

PROGRAMMING SKILLS

- **Programming Languages:** C++, Python, Go, C
- **Technologies:** AWS/GCP/Azure, k8s, Pytorch, Kafka, Cassandra, Solr, Docker, PostgreSQL, nginx, etc.
- **Video Streaming:** Experience with video livestreaming protocols, codecs, and tools such as HLS, RTSP/RTMP, and ffmpeg.
- **Linux Performance Monitoring:** Experience with performance monitoring tools such as eBPF and strace/dtrace/dtruss.

EDUCATION

- **Hagop Kevorkian Center at New York University** New York, NY
Masters Candidate in Near Eastern Studies *Jan. 2020 - Present*
- **University of Illinois at Urbana-Champaign** Urbana-Champaign, IL
Bachelors of Science in Astronomy *Aug. 2012 - May 2016*

OTHER SKILLS

- **Foreign Languages:** Native proficiency in English & Mandarin, working proficiency in Iraqi Arabic.