

Raymond Zheng

Software Engineer in Data and ML Engineering
raymond.zheng.8@gmail.com | (669) 282-9777

EDUCATION

UNIVERSITY OF WATERLOO

BS in Computer Science, Honors
December 2020
79.67% Average

LINKS

Github.com/ZhengRaymond
LinkedIn.com/in/ZhengRaymond
http://ZhengRaymond.github.io

COURSEWORK

WATERLOO

- Compilers
- Distributed Systems
- Concurrency
- Financial Modeling (CS 476)
- Computer Security
- Mathematics of Machine Learning
- Cryptography
- Computer Networks
- Assemblers, Operating Systems
- Operating Systems
- Algorithms/Data Structures
- Numerical Computation

ONLINE

- Daphne Koller's Probabilistic Graphical Models (1/3)
- Andrew Ng's 5-course Deep Learning Specialization (5/5)
- A-Z Machine Learning (Udemy)
- React, Redux, GraphQL (Udemy)

SKILLS

LANGUAGES

Python, Java, Scala, C++

TOOLS

Data pipelining:

Spark, Flink, Kafka, Hive, Hadoop

Infrastructure:

Kubernetes, Docker, AWS/GCP, Terraform

Datastores:

Postgres, MySQL, RocksDB, InfluxDB,
Redis, Presto, Elasticsearch, Prometheus

Just ask me to design some system!

EXPERIENCE

ROBINHOOD

Software Engineer, Risk and Fraud, February 2020 (Current), Menlo Park

- Develop systems to mitigate fraud attacks abusing Robinhood
- Monitor financial executions to measure and mitigate risks present in the financial business.

QUORA

Machine Learning Engineer Intern, May - Aug 2019 (current), Mountain View

- Migrated jobs to Apache Spark, reducing costs and computation time by 90%, allowing the removal of aggressive down sampling and therefore more data throughput.
- Replaced moving average data with adapted exponential moving averages; improves feed quality for sparser users, reduces bias from power users.

TWITTER

Blobstore Software Intern, Sept - Dec 2018, Seattle

- Built a heartbeat service to collect info from distributed blob storage system.
- Reduced unknown 5xx errors by 70%, improving latency and stream draining rate and making errors actionable.

ETSY

GoogleAds Software Intern, May - Aug 2018, New York City

- Increased revenue from Google Ads by 8% by auto-generating ad campaigns for microbusinesses on Etsy.

HOMER LOGISTICS

Operations Research Intern, Jan - Apr 2018, New York City

- Implemented metaheuristic papers to solve routes (CPDPTW Pickup & Delivery problem), build interface for real time usage and training.

APPDIRECT

Backend Intern, May - Aug 2017, Montreal, QC

- Created dashboards and CLI for internal devops tools, integrated Kubernetes rollback/deployment. Improved log grepping, and cached/lazy-loaded search results.
- Improved configuration with dynamic forms with validation for inhouse devops tool (React).
- Replaced some dashboard functionality with Slack chatbots to improve on-call.

GENESYS

Software Analyst, Sept - Dec 2016, Toronto, ON

- Improved monitoring, migrated python scripts to Docker, automated data collection with Selenium.

PROJECTS

OPTIMAL APARTMENT

- Scrapes Airbnb and Craigslist, for real estate data. Geographic range queries with Route360 API. User interface using Leaflet and React.

TETRIS BOT

- Artificial neural network learns the game of Tetris. (C++)