





# Taoling Yang

Bachelor of Computer Science  
University of Waterloo

## Skills Summary

### Languages

- Java/Kotlin 
- Python 
- C/C++ 
- JavaScript/ES6 

### Tools

- AWS Suite
- Kafka, Zookeeper
- Unix/Linux, Docker, NPM
- AWS CDK, AWS CloudFormation
- Maven, Make, Ant
- Pylons, Flask
- Apache Samza/Storm, Hadoop
- Spring, Dagger, Guice

## Experiences<sup>1</sup>

Dec 2019 - Current:  
Amazon

### Software Development Engineer II – Disruption Recovery

- Orchestrated, coordinated and architected large scale project across 6 teams over 4 months to deliver a product in time for market. Designed various system interactions, pushed for deadlines and lead bi-weekly sync ups to keep up progress. Designed and implemented portions relevant to our service, including core logic, APIs, deployment strategy, automated tests, alarming, monitoring, data warehousing.
- Coordinated, designed and developed new APIs to our existing service to serve other teams. Provided technical support in onboarding the new APIs and advised on testing/deployment strategy for those teams.
- Coordinated, designed and deployed regional expansion of our existing service. Including refactoring existing service startup logic to be more modular, advising other teams on regional VIP setup, etc.
- Various other duties such as bug-fixing, oncall, interviewing, etc.

Jul 2017 – Dec 2019:  
Amazon

### Software Development Engineer I – Disruption Recovery

- Built a monitoring website for disruptions within the Amazon transportation network, using Angular 2 with entirely serverless backend in AWS, based on Lambda, API Gateway, DDB, SQS/SNS, Kinesis and ElasticSearch. Monitoring/alarming setup completely in CloudWatch.
- Added/re-wrote functionality in our main service, a real-time event triggered workflow system, to handle concurrent executions with optimistic locking to guarantee at-least-once execution. Also added functionality on deduplicating actions taken by the system.
- Wrote various aforementioned workflows (state machines) using AWS StepFunctions to handle different failure scenarios in the Amazon transportation network.
- Built a fully serverless service in AWS with CDK to replace a legacy service, which also automated manual operator intervention.
- Migrated various services off of Oracle to AWS RDS.
- Various other duties such as bug-fixing and oncall.

Sep 2016 - Dec 2016:  
AdRoll Inc.

### Software Developer, Full-Stack, Intern

- Worked with the dynamic creative team and supported dynamic ads from server-side, fixed various bugs within the system.
- Developed a front-to-back system for configuring and opting customers into an external service.
- Developed a Java extended imaging library for handling CMYK JPEGs on Apache Storm.

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### Me:

- I'm a graduate of University of Waterloo for Computer Science, Honours, Co-op.
- I love solving programming puzzles and learning new tools/algorithms /tricks.
- I am an amateur photographer who loves music and cooking.
- I like doing home renovations myself; I am also very good at IT support and DIY.

• #atomio

<sup>1</sup>Some experiences were omitted due to spatial limitation, please check my LinkedIn for full details.