

# GUOQING XIONG

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## EDUCATION

### **New York University**

Master of Science, Computer Science

### **Beijing University of Posts and Telecommunications**

Bachelor of Engineering, Electronic Engineering

### **New York**

*September 2015 – May 2017*

### **Beijing, China**

*September 2011 – July 2015*

## TECHNICAL SKILLS

Category	Skills
Programming Languages	Java, Kotlin, Golang, Python, Typescript
Cloud Services	Amazon Web Services (AWS), Docker
Databases	DynamoDB, Redis, MySQL, Postgres, MongoDB
Frameworks	React, Node.js, Webpack, AntDesign, RubyOnRails
APIs & Tools	Thrift IDL, gRPC, Git, Linux/Unix, CI/CD, Backstage
Domains	Logistics System, Distributed Systems, Monorepo Architecture, Serverless Computing

## WORK EXPERIENCE

### **Software Development Engineer**

*October 2023 – Now*

*Global Mile Planning Logistics Team*

*Amazon.com, Inc*

- Developed automation regression test framework for retail batch planning workflow, covering data config, planning graph construction, and deviation handling
- Implemented vessel allocation constraints for dimensions service level and load type then populated into DocumentDB so Ops can conserve critical ocean capacities
- Designed destination dwelling constraints feature into the core planning algorithm using Kotlin, which decreased cargo dwelling time and demurrage fee by 12%
- Designed a capacity-aware booking feature for the POL warehousing system to process planning results and emit operational signals to global mile system and 3PLs
- Resolved a long-standing CAB FCL tier-capacity mismatch issue by developing a Lambda script and integrating a daily cache & reset mechanism, reducing mismatches from hundreds to under 50

### **Software Development Engineer**

*July 2023 – October 2023*

*Insurance Team*

*Flexport, Inc*

- Contributed to the architecture and implementation of the Cargo Insurance System (quoting, invoicing, underwriting components) to support customized insurance sales and captive loss goals
- Utilized the internal RubyOnRails monolith and cloud-native Backstage platform to accelerate software development and delivery

### **Software Development Engineer**

*September 2020 – March 2023*

*TikTok Team*

*ByteDance, Inc*

- Pioneered a video partial-view visibility feature and drove adoption across all social scenes (post, review, feed), AB test resulting in a 10% increase in post rate and a 0.2% increase in Long-Term (LT) metrics
- Optimized the data synchronization mechanism for the IES phonebook system, improving data consistency from 75% to 99.9% and gaining social depth by 4%

- Implemented privacy filter logic into a proxy SDK, which filtered 1000s of unauthorized content accesses per day and prevented user privacy issues
- Built an internal social lookup system that stores user behavior snapshots, enabling IES teams to debug customer issues within minutes
- Delivered a client retry upload solution after debugging a load-balancer stability issue in the phonebook business, improving friend recommendation follow rate by 7%
- Collaborated with the architecture team to optimize the local cache mechanism, resolving a video visibility latency issue

### **Software Development Engineer**

*April 2019 – Aug 2020*

*Michelangelo Team*

*Uber Technologies, Inc*

- Led the migration of MLE APIs from Python to a Java Monorepo and upgraded APIs using Thrift IDL
- Configured traffic control, monitoring, metrics, staging environment, and Docker for the new MLE service

### **Software Development Engineer**

*October 2018– April 2019*

*DynamoDB Transportation*

*Amazon.com, Inc*

- Contributed to designing Transact Get and Transact Write feature in DynamoDB
- Implemented functional tests in test cluster for Pay by Request mode and Transaction feature in DynamoDB
- Enhanced dmesg error checks to detect and added excom unhealthy RequestRouter node mechanism

### **Software Development Engineer**

*June 2017– October 2018*

*Middle Mile Transportation*

*Amazon.com, Inc*

- Developed the Middle Mile Rates Service UI using React, AntDesign, Webpack, and Typescript
- Contributed to the design of a new MVC Java service system to integrate inbound and outbound rates