GUOQING XIONG

Seattle, WA ● (617) 543-2778 ● gx267@nyu.edu

EDUCATION

New York University	**New York**
Master of Science, Computer Science	*September 2015 – May 2017*
Beijing University of Posts and Telecommunications	**Beijing, China**
Bachelor of Engineering, Electronic Engineering	*September 2011 – July 2015*

TECHNICAL SKILLS

Programming Languages	**Java**, **Kotlin**, **Golang**, **Python**, **Typescript**
Cloud Services	**Amazon Web Services (AWS)**, **Docker**
Databases	**DynamoDB**, **Redis**, **MySQL**, **Postgres, MongoDB**
Frameworks	**SOA, Microservices, React**, **Node.js**, Webpack, RubyOnRails
APIs & Tools	**Thrift IDL**, **gRPC**, Git, Linux/Unix, CI/CD, Backstage
Domains	**Logistics**, **Distributed System**, Machine Learning Infrastructure

WORK EXPERIENCE

Software Development Engineer
October 2023 – Now

Global Mile Planning Logistics Team
Amazon.com, Inc

➢ ***Launched*** booking batch planning test framework with over 20 cases, decreased regression test effort by 80%, also integrated test suite in full-CD pipelines

➢ ***Implemented*** vessel capacity allocation constraints then populated with supply network into DocumentDB, hence improved vessel capacity utilization priorities

➢ ***Designed*** destination dwelling constraints into Mixed Integer Linear Programming solver, which decreased cargo dwelling time by 3 days and demurrage fee by 12%

➢ In cross-org project Capacity Aware Booking, *re-designed* Port Warehousing system to generate container load plan with promised ETA and destination

➢ ***Resolved*** a long-standing capacity consumption mismatch issue by developing a Lambda script with detect, cache & reset mechanism, reduced mismatches from few hundreds to under 10 and avoided recurring planning delays

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, improved debugging customer issues effort to within minutes
- ➢ *Delivered* a client retry upload solution after debugging a 4XX load-balancer stability issue in the phonebook business, improving friend recommendation follow rate by 7%
- ➢ *Collaborated* with the infrastructure team to optimize the local cache mechanism, resolved video visibility rendering latency issue

Software Development Engineer   *October 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 – October 2019*

DynamoDB Team   *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 (diagnostic messages) 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* Middle Mile Rates Webapp using React, Webpack, and Typescript
- ➢ *Contributed* to the design of carrier rates service in Java Microservices