

# TINGYU CHEN

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## EDUCATION

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**Rutgers, The State University of New Jersey**

**Sept 2013 - May 2015**

M.S, Computer Engineering, GPA: 3.7

**Nanjing Normal University; Nanjing, China**

**Sept 2009 - Jun 2013**

B.S, Electrical and Computer Engineering 3.5

## SKILLS

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**Programming Language:** Java, Python, SQL, Groovy, TypeScript, Scala, Perl, JavaScript, C

**Tools and Frameworks:** AWS Services (EC2, DynamoDB, Elasticsearch, S3, Redshift, SQS, SNS, Lambda, Kinesis, CloudWatch), Spring, Git, Sybase, Cassandra, Splunk, Angular, Jenkins

## EXPERIENCE

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**Amazon, New York, NY**

**Feb 2019 – Present**

**Amazon Live Creators Tools (Software Engineer)**

**Aug 2019 – Present**

- Creators Tools team provides creators, e.g. seller and vendor, with mobile application for live streaming and ensures live video shopping experience for customers. I'm working on backend services including broadcast and ads campaign workflow using Java and AWS services, e.g. EC2 and DynamoDB.
- Developing onsite attribution service for influencer to earn commission for traffic brought to product.
- Developing tiering service to allow different permissions and benefits for different vendor/seller.
- Enhanced product search functionality in Amazon Live Creator application by integrating internal search service and product catalog service using Java.

**Amazon Live Data Platform (Software Engineer)**

**Feb 2019 – Aug 2019**

- Data Platform team collects, processes and stores Amazon Live Creator produced video data including video metadata and advertising metrics. It provides nearly real-time data to Amazon Live streaming video and generates advertising metrics for advertisers. I mainly worked on developing data pipeline and improving campaign creation workflow using Java and AWS services, e.g. Elasticsearch, Redshift, S3, SQS, SNS, Kinesis Firehose and DynamoDB.
- Designed and built product level campaign creation workflow for Amazon Live stream to allow ads attribution calculation at asin level.
- Optimized ads traffic upload workflow from daily upload to minutely upload for faster attribution result.

**BlackRock, New York, NY**

**Aug 2015 – Jan 2019**

*Continuous Integration and Continuous Delivery (CICD)*

- Implemented backend pipeline services and build tools integration, which consists of Jenkins, BitBucket and SonarQube, to streamline continuous integration and delivery with Java, Spring and Groovy.

*Application Packaging in Software Release Permissions Tool (SRPT)*

- Developed functionalities in application packaging, which simplifies the way of releasing application by bundling application components into single versioned and deployable unit.

*Http2Bms in BlackRock Messaging System (BMS)*

- Designed and built Http2Bms configuration tool to manage route configuration for Http2Bms.

*Interactive Portfolio Reporting and Analysis Tool (Prism)*

- Refactored data structure and algorithm in Prism server to optimize memory usage. Maintained and improved Angular front-end dashboard and back-end server.

*BlackRock Alpha Accounting System*

- Developed alpha valuation service in accounting system to produce fund performance data.