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# EDUCATION

Carnegie Mellon University

Master of Electrical And Computer Engineering, GPA: 3.92/4.00

Pittsburgh, PA

May 2016

Harbin Institute of Technology

Bachelor of Science, Communication Engineering, GPA: 87.78/100

Harbin, China

June 2014

### SKILLS

• Programming Language: Mainly use Scala and Java, hands on coding in Bash, project experience in Go and C.

- RTB Lifecycle: Experienced in DSP building and maintenance. Familiar with Open RTB protocol and integration workflow. Knowledged about ID-Sync, audience targeting, etc.
- Microservice Building: Experienced in building microservice with Finagle, Zookeeper, Docker, Mesos, Nginx
- Big Data ETL: Real life work on data stream with Kafka. Experienced in ETL pipeline build with Scalding, Spark, Oozie, Sqoop. Familiar with big data storage like Hive/Impala, HDFS.
- API Implementation: Worked with both Play and Node.js. Relational database experience in MySQL and Postgre.
- Agile Working: Agile team player including pair-coding, code review, test and validation in full lifecycle, etc.

# EXPERIENCE

Tapad Inc.

New York, NY

July 2016 - Present

Software Engineer

### o Demand Side Platform:

- ♦ Worked in a 3 people team building real-time bidding system with million level QPS and under 10 ms P99 latency.
- Major contributor in Open RTB integration and built Native ads serving from scratch with DB design, request/serving mechanism and internal preview API.
- ♦ Created debugger tool featuring MVEL to support multiple filter expressions like platform, user-agent, etc

# • Audience ETL Platform:

- ♦ Worked in a 4 engineers team building an automated target audience ETL platform from ground.
- ♦ Participate in pipeline and DB design. Paired with frontend engineer on API implementation with Typed.js.
- ♦ Integrate with 2 major partners and customize upload client with status logging, error and flow control feature.
- ♦ Featured docker compose to implement sbt integration test mechanism in one command.

#### • Tracked Event Streaming:

- ♦ Implemented a tracked event streaming pipeline across platform with Kafka.
- ♦ Enrich internal API with thirdparty events mapping. Used Zookeeper for notifying consumer events pick up.

## • Analytics Report Generator:

- ♦ Built pipeline for hourly thirdparty data import and summarization with Hadoop, Oozie and Sqoop.
- Implemented report generator's coordination mechanism using Zookeeper for report loss recovery.
- Dockerized existing report generation service and configured it for integration test.

# • IP Look Up Service:

- ♦ Used Mesos and Finagle to move off-heap memory based IP lookup service out of bidding system.
- ♦ Implemented client lazy evaluation and cache to minimize service queries and improve performance.

### • Cross Screen Audience Experiment:

- ♦ Took full charge of whole ETL pipe-line design and implementation.
- Extracted data from AWS S3 and HDFS, transformed data and generated a graph based cross screen target audience with Scalding. Implemented data upload mechanism to thirdparty platform.
- ♦ Worked with PM and client on data analysis and validation with scalding.

EEme, LLC Pittsburgh, PA Software Engineer, Part-time Intern Mar. 2016

### • Analytics Frontend:

♦ Built an asynchronous file drag-drop upload feature with Ruby on Rails and deployed on Heroku. The feature included drag-drop, file validation, request to analytics engine and display analytic response in UI.