

# Yen-Tin Liu

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## EXPERIENCE

### Zulily, Seattle WA

Nov 2016 - Present

#### Software Engineer (Member Engagement Platform)

- Led the project to migrate/rebuild email sending system to be backed by SendGrid. Came up with Decorator Pattern myself and introduced to the project to have better code decoupling which in turn reduced the difficulty of writing unit tests and of parallel development. The system is in microservice architecture and allows easy debugging and scaling.
- Incorporated AWS Kinesis Analytics Flink Application into existing systems so we can process, analyze and monitor the log events in near real time.
- Played with Spark SQL to get the POC for Team's next generation customer segmentations builder which was a huge file-based Hadoop job. Actual work is still in backlog.
- On company hack day, developed continuous deployment process for our mobile push system with Gitlab and AWS Cloud Formation and the process was applied to all team projects later on.
- Initialized new generation of internal UI written in React.js. Learned the library from scratch and set up development environment, packaging strategy and deployment process.
- Helped team migration from Rackspace/Google to AWS. Mainly focused on getting batch jobs run on ECS and API services on Application Load Balancer.

### IPsoft, Inc. New York NY

July 2015 – Aug 2016

#### R&D Engineer

- Implemented a graph/tree-like server monitoring system, in which the leaf node stores the metrics of an individual server and parent node stores the integrated performance metrics for reporting. Used Cassandra database as data store for scalability and fast retrieval.

## TECHNICAL SKILLS

**Programming Language:** Java, Scala, Python, Javascript (React)

**Data Store:** MongoDB, MySQL, Redis, Cassandra

**Development Tools:** Docker, Kubernetes, Maven, Gradle, Drop Wizard, Spring, Hibernate

**Big Data:** Flink, Spark, MapReduce, Hadoop, Tornado, Ansible

**Cloud Services:** SQS, Kinesis, ECS, EMR, S3, CloudFront, CloudFormation, Lambda, RDS, DynamoDB

## EDUCATION

### New York University, New York, NY

May 2015

Master of Science in Computer Science

3.7 / 4.0

- Focused on Big Data Processing and Search Engine
- Knowledge Graph (Group project for Web Search Engine)  
Crawled more than 7 million Wikipedia pages to extract relations between entities from infobox, tables and lists. Graph user is able to search with semi-structured query and get knowledge about that query, which is not explicitly present on the Internet.

### National Tsing Hua University, Hsinchu, Taiwan

June 2009

Bachelor of Arts in Economics

3.45 / 4.0