

# Tin Htet Kyaw

## Hands-on Software Engineering Leader

Millbrae, CA, USA

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Hands-on engineering leader with wealth of experience building distributed, scalable Big Data, Machine Learning systems

## Experience

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### Lightspeed Venture Partners, Menlo Park, CA

#### Director of Engineering/Founding Member of Lightspeed's Data Platform Team

Jan. 2019 - Present

- Leading a team of two engineers and five contractors to create automated, data-driven solutions for deal sourcing, diligence and portfolio support in venture capital investing
  - Building scalable data infrastructure to onboard datasets, generate features, train and test machine learning models
  - Creating internal tools to help track and analyze relationships and signals on future investment opportunities and candidates
  - Working cross-functionally with investors to improve the ability of our data models to generate useful business insights

### Lyft Inc., San Francisco, CA

#### Machine Learning & Intelligence Staff Software Engineer, Autonomous Vehicle Division

Jun. 2018 - Jan. 2019

- Built a Kubernetes-based machine learning pipeline to easily iterate on Tensorflow and PyTorch computer vision models to build High Definition maps

#### Staff Software Engineer/Engineering Lead

Aug. 2017 - May 2018

- Led a team of three engineers to rebuild Lyft's live traffic profile estimation pipeline using PySpark, reducing its overall latency from hours to less than 30 minutes — the pipeline produced traffic models simulating real-time traffic conditions based on recently-live Lyft rides and served as a critical input to Lyft's ETA estimation models
- Collaborated with ETA Data Science team to reduce Lyft's ETA estimation error rate by 5%

### Walmart Labs, Sunnyvale, CA

#### Principal Software Engineer/Engineering Lead

Aug. 2016 - Apr. 2017

- Led a team of three engineers to re-architect the Walmart Ad Exchange (WMX) platform on Apache Spark to drive smart and responsive ad-targeting based on Walmart's unique offline+online datasets

### Netflix Inc., Los Gatos, CA

#### Senior Software Engineer

Aug. 2014 - Jul. 2016

- Built and launched the first production-grade machine learning pipeline on Apache Spark at Netflix to:
  - Enable rapid development of recommendation algorithms for movies and TV shows
  - Generate daily personalized recommendations to power email, push notifications and Billboard — the large banner above the fold on Netflix homepage
- Wrote the recommendation algorithm to cold-start new titles with little metadata and no play history
- Improved Billboard recommendation algorithm to balance impressions among competing titles while maximizing streaming hours

### Drawbridge Inc. (acquired by LinkedIn), San Mateo, CA

#### First Engineer, Algorithm Engineering Manager

Jan. 2011 - Feb. 2014

- Created Drawbridge's first Device Graph to statistically connect anonymized ids of the same user across multiple devices
  - Achieved over 60% precision on a partner-provided test dataset
- Designed and built Drawbridge's batch data pipeline using Hadoop, Hive, Pig and Oozie to process daily billions of events in terabytes of data
- Managed a team of three engineers building machine learning models for:
  - Click-through rate (CTR) and conversion rate (CVR) prediction and optimization
  - Loss prevention — to flag, stop and alert for ad groups and campaigns where losses, differences between predicted and actual revenues, exceed alert thresholds
  - User behavior, demographic and geographic feature extraction and extrapolation

### Announce Media Inc. (Answers.com), Mountain View, CA

#### Senior Software Engineer

Jun. 2010 - Dec. 2010

- Architected and launched Announce Media's first Hadoop application to parallelize, scale and automate keyword evaluation for the company's core business of search engine marketing

**AdMob Inc. (acquired by Google),** *San Mateo, CA*

**Software Engineer**

*May 2008 - May 2010*

- Built and maintained Unique User (UU) service, a real-time system keeping track of ad impressions and clicks per UU throughout the hyper-growth phase of the early mobile web
- Created Hadoop jobs to compute analytics of UU data in AdMob's advertising network

**Yahoo! Inc.,** *Sunnyvale, CA*

**Software Engineer**

*Sep. 2005 - Apr 2008*

- Developed ad-serving, link-tracking, A/B testing, location-based personalization and backend for core modules such as Mail, RSS, Scoreboard, TV, Weather and Personal Assistant modules to My Yahoo!

## Education

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**Massachusetts Institute of Technology,** *Cambridge, MA*

*Sep. 2000 - Sep. 2005*

- Master of Engineering in Electrical Engineering and Computer Science (EECS) *Sep. 2005*
- Bachelor of Science in Management Science with concentration in Finance *Jun. 2005*
- Bachelor of Science in Electrical Engineering and Computer Science (EECS) with Minor in Economics *Jun. 2004*

## Skills

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**Languages & Frameworks:** Java, Scala, Python, Bash, SQL, Spark, Hadoop, Hive, Airflow, Docker, Kubernetes, PostgreSQL, AWS, Git

**Communication:** English, Burmese, Chinese Mandarin, Japanese (*3 years of college-level coursework*)

## Patents & Awards

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**Method for Transmitting Information to Device on a Network Based upon Information Associated with a Different Device on the Network,** *Sivaramakrishnan, K.; Guan, D.; Kyaw T.; et al. 2016.*

*US 20160125461 A1*

**System and Method for Determining Related Digital Identities,** *Sivaramakrishnan, K.; Guan, D.; Kyaw T.; et al. 2014.*

*US 20140095320 A1*

**Fourth Place,** *National Matriculation Examination, Ministry of Education, Republic of the Union of Myanmar*

*1997*