

# Tin Htet Kyaw

## Hands-on Software Engineering Leader

Millbrae, California, USA

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Hands-on software engineering leader with experience in building distributed, scalable Big Data, Machine Learning, Artificial Intelligence systems. Specialized in creating a data platform for venture capital investing in the past 5 years.

## Experience

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### Lightspeed Venture Partners, Menlo Park, CA

#### Vice President, Data

Jan. 2022 - Present

- Leading the efforts in scaling Lightspeed's data platform and driving its adoption across the firm
  - Lightspeed's data platform searches for investment opportunities by tracking over 3.8 million companies and 270 million people
  - Our automated data room diligence tool reduces the time to perform due diligence on a company from days to less than 30 minutes
  - Lightspeed data team was voted one of the top 20 most data driven venture capital funds by peers in Data Driven VC Landscape Report 2 years in a row for 2023 and 2024

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

Jan. 2019 - December 2021

- Led the Data Engineering team to create a data platform that powers deal sourcing, diligence and portfolio support in venture capital investing
  - Built scalable data infrastructure to onboard datasets, generate features, train and test machine learning models
  - Created internal tools to help track and analyze relationships and signals on future investment opportunities and candidates
  - Worked cross-functionally with investors and operations teams to improve the quality of data models and automate business processes

### 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 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 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 using Apache Spark at Netflix:
  - Enabled rapid development of recommendation algorithms for movies and TV shows
  - Generated 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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**Programming:** Python, Java, Scala, Bash, SQL

**Software:** GPT-3.5, GPT-4, Snowflake, BigQuery, PostgreSQL, Spark, Elasticsearch, Hadoop, Hive, Airflow, Serverless, Docker, Kubernetes, Terraform, Git, Amazon Web Service (AWS), Google Cloud Platform (GCP)

**Languages:** 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. US 20160125461 A1 2016.

**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