

# Michael Wang

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## WORK EXPERIENCE

### AWS | SOFTWARE DEVELOPMENT ENGINEER

Santa Clara, CA | Feb 2020 – Present

- Leading, developing and driving engineering, infrastructure and operations of a **serverless SaaS product, AWS Tier 1 service**.
- Built microservice architecture and **ETL streaming data pipeline** to solve data engineering problem at scale by batching millions of message and de-duplicate records, which saved more than **40%** operational cost monthly in all prod regions.
- Designed and built auto scaling algorithm to process millions of distributed messages at high concurrent rate in async way, which optimized the solution of scale up/down serverless instances and saved more than **20%** operational cost monthly in all prod regions.
- Designed and built distributed system to detect bad actor events and rate-limit high frequency of events and accounts, which lower the pressure of downstream ETL data pipeline service and uniformly deliver resources across all customer within committed **SLA**.
- Resolved more than **200+** customer ticket and Implemented monitoring and analytical OE dashboard to track process metrics and identify opportunities for further optimization.
- Collaborated with cross-functional teams, including software developers, product managers, and business stakeholders, to execute on product vision and strategy, ensuring successful delivery of products that meet user needs and drive business growth.

### AKZ EINK | SOFTWARE ENGINEER

Shanghai, China | Dec 2016 – Jan 2020

- Supported Eink core UI Infrastructure and implemented cross platform of end-to-end Eink UI fundamental components in **React Native** framework using **C++**, **GTK**, **Cairo Graphics** and **React TypeScript**.
- Rewrote **30K+ C++** lines to migrate old **Java** navigation application to **Modern C++** and reduced overall **30%** memory consumption as well as paying off significant tech debt by refactoring the small components and deprecating **5K+** lines of legacy code.
- Led in designing the brand new Eink full-stack search application and implemented independent client's provider modules using **C++** and **React TypeScript**.
- Implemented cache logic and optimized the efficiency of search query which reduced **p99 search latency more than 30%** and avoided unnecessary traffics between services and application.
- Designed the sign-off test framework and set up **CI/CD pipelines** including to hook up test cases in each custom stage and used **AWS S3** to store build and debug logs, which against each code's commit being push to production and also guard every release cycle.
- Worked closely with **Product Manager** and **UX Designer** to determine new feature of product and identify opportunities to improve the user experience.

## EDUCATION

### B.S. Computer Science | TEXAS A&M UNIVERSITY

College Station, TX | Dec 2016

Teacher Assistant (TA): Operating System & Data Structures and Algorithms

## SKILLS

**Proficient:** C++, C, JavaScript, Java, Python, TypeScript, React, React Native, CMake, Ant, Git

**Exposure:** SQL, Dagger, Spring, Hibernate.

**AWS development:** S3, DynamoDB, Lambda, CloudWatch, APIGateway, CloudFormation, IAM, EventBridge, SQS, Kinesis, Glue, SNS