ANDREW CHOI

andrewchoi555@gmail.com | (415) 463-9024 | Computer Engineering (Honors)

Qualifications

- AGI: Kubernetes, PyTorch, CUDA, Triton, Redis, Infiniband, NCCL, NVLink, LLMs, GPT-4, DALL-E, MXNet
- Languages: Java, Python, C, C++, C#, Objective-C, JavaScript, PHP, Ruby, Swift, Bash
- Data Engineering: Kafka, ZooKeeper, Spark, Hadoop, NoSQL, MSSQL, MySQL, CloudantDB, MongoDB
- Front End Tech: Vue.js, Ionic 4, Bootstrap, CodeKit, Meteor, React, Angular, Flutter, React Native, Ember, Preact, Svelte

Professional Experience

Coinbase | May 2021 | Engineering Lead & Tech Lead (Data Engineering) | San Francisco | Outstanding Performance Evaluation

- Managed and took leadership of a team of 15+ engineers to offer high-performance warehousing of data from internal and external systems for Coinbase Engineering with high scale distributed systems and ML systems.
- Successfully formulated an architecture that ingests 95% of data from internal services and 3rd parties into Coinbase's enterprise data warehouse (Snowflake and the upcoming Data Lake) using AI training frameworks.
- Transformed the large-scale data with Airflow, Spark and rendered it 63% more efficient to consume the output interactively using Looker, Redash, and SQL through 2 APIs: Warehouse API and Fast Query Service as well as SQS.

Microsoft | April 2019 | Tech Lead (Kafka & Distributed Systems) | San Francisco | Outstanding Performance Evaluation

- Managed and drove a team of 10+ engineers which designed the architecture for Kafka deployed on Azure Virtual Machine Scale Sets and for Kafka broker ID generation deployed on Azure using Generative AI and GAN model.
- As Tech Lead, Increased the OSS daily users by 79%+ for Kafka Monitor by releasing / committing robust, fault-tolerant monitoring AI features that produce cluster latency and availability metrics at scale. https://github.com/linkedin/kafka-monitor

Microsoft | August 2018 | Tech Lead (Azure Cloud Platform) | San Francisco, CA | Outstanding Performance Evaluation

- Managed the team of 7 engineers that designed and productionalized ML-based Java library of API for Kafka clusters running on Azure, automating the attachment processes of managed disks and file systems on Linux VMs by fine tuning and RLHF.
- Fully streamlined Kafka, restructuring s.t. it makes brokers compatible with Azure virtual machines and its cloud resources.

Snapchat | May 2017 | Software Engineer (Search Ranking & Data Pipeline) | LA | Outstanding Performance Evaluation

- Pipelined, stored streams of ML data, and productionized scalable stream processing applications for events real time.
- Constructed real-time streaming applications that transform or react to big data including Spark jobs using transformers.
- Using Google Pub/Sub, retained publishing and subscription-based streams of records on Kafka using ML training and inference
- Drove binary curation feature that trains Snapchat ML / DL model w/ system-fed image objects (BigTable, Obj-C)

IBM | January 2016 | Software Engineer (iOS & Android + Full Stack) | Toronto, ON | Outstanding Performance Evaluation

- Leveraged TI Bluetooth SensorTag to implement Airport Luggage Tracking IoT prototype on ML APIs (NLP, T2S, S2T)

BlackBerry | April 2015 | Software Engineer (Web Development) | Waterloo, ON | Outstanding Performance Evaluation

- Executed full-stack development on enhancements to critical BB10 apps (HOTS) & web apps (BBAR Client & GreenState) that support BB Service Product offerings, including Enterprise, Messaging, Handheld using MySQL & MSSQL.

Education

University of Waterloo | Bachelor of Applied Science (B.A.Sc) in Computer Engineering (ML) – Rank 1 Upon Admission

- Arthur F. Church Scholarship, highest award offered to 1 student in Computer Engineering class (#1 Entrance Average)