

# ANDREWCHOI

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## Qualifications

[andrewchoi5@hotmail.com](mailto:andrewchoi5@hotmail.com) | (415) 463-9024 | Computer Engineering (Honors)

- Front End Tech: Vue.js, Ionic 4, Bootstrap, CodeKit, Meteor, React, Angular, Flutter, React Native, Ember, Preact, Svelte
- Languages: Java, Python, C, C++, C#, Objective-C, JavaScript, PHP, Ruby, Swift, Bash
- Data Engineering: Kafka, ZooKeeper, Spark, Hadoop, NoSQL, MSSQL, MySQL, CloudantDB, MongoDB
- Environments: iOS, OS X, Azure, AWS, D3, Node.js, \*nix, ActionHero.js, Android, jQuery, NPM, Grunt

## Professional Experience



### Coinbase

May 2021

Engineering Lead & Tech Lead (Data & Payments Risk) | San Francisco, CA

[Outstanding Performance Evaluation](#)

- Managed and took leadership of team of 10+ engineers to offer high-performance warehousing of data from internal and external systems for Coinbase Engineering.
- 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
- 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 Bay Area, CA

[Outstanding Performance Evaluation](#)

- Managed and drove a team of 8 engineers which designed the architecture for Kafka deployed on Azure Virtual Machine Scale Sets (VMSS) and for Kafka broker ID generation deployed on Microsoft Azure.
- As Tech Lead, Increased the OSS daily users by 59%+ for Kafka Monitor by releasing / committing robust, fault-tolerant monitoring features that produce cluster latency and availability metrics. <https://github.com/linkedin/kafka-monitor>



### Microsoft

August 2018

Tech Lead (Azure Cloud Platform) | San Francisco Bay Area, CA

[Outstanding Performance Evaluation](#)

- Managed the team of 7 engineers that designed and productionalized Java library of API for Kafka clusters running on Azure, automating the attachment processes of managed disks and file systems on Linux VMs.
- 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) | Los Angeles, CA

[Outstanding Performance valuation](#)

- Pipelined, stored streams of big data, and productionized scalable stream processing applications for events real time.
- Constructed real-time streaming applications that transform or react to big data including Apache Spark jobs.
- Using Google Pub/Sub, retained publishing and subscription-based streams of records on Apache Kafka.
- 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 – Rank 1 Upon Admission

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