

Jason Jiang

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EDUCATION

UC Berkeley *Bachelors in Computer Science*

2009 - 2013

WORK EXPERIENCE

Bird *Team Lead / Senior Software Engineer 2*

August 2018 - Present

Lead a team of 3 engineers, 1 data scientist, and 1 designer on the Parking Mission Team to build improvements to Bird's scooter parking compliance and scooter utilization. We built a **Kotlin** backend service and added numerous parking features to Bird's **iOS** and **Android** apps.

In the markets where we launched this feature:

- Bird saw a **50% to 75% increase** in scooter utilization per day
- Bird became the **most compliant operator** in several of our most important markets
- We preempted several new strict parking regulations in **Paris** and **Tel Aviv**
- We created the most successful mission team, **far surpassing our KPIs**

Led the **Bird Lifecycle** project that built a service which tracks operational states of every scooter in our inventory.

- The new service consolidated many disparate boolean states and decreased operational mistakes in our fleet management.
- The new state machine allowed a comprehensive refactor of Bird's daily performance report from an offline periodic job to an async streaming system with **millisecond latency down from many hours per job run**

Led numerous organizational improvements as Bird grew its engineering team

- Initiated and lead an effort to completely overhaul Bird's recruiting process
- Lead a **recurring weekly meeting** with the **executive team** to implement constant improvements to the engineering org
- Improved the performance and retention rates of new hires by **many multiples**

Blend *Senior Software Engineer / Tech Lead*

August 2018 - Present

Worked on migrating our **Golang** data integrations service to **Kubernetes** and improved system performance and scaling:

- Improved average **postgres** database latencies by 100%

Converted our system to use secrets vault to encrypt and hash PII with **per-cell encryption keys**. This improved the security of our system, we went from using 1 environment wide encryption key for all PII to having per-cell encryption keys.

Built integrations for our **node.js** monolith service to connect with Equifax's external apis to collect and pre-fill potential borrowers' financial information with their consent.

Uber *Software Engineer / Tech Lead*

March 2015 – April 2017

Led two engineers on document processing and vehicle screenings verticals scoping, architecting, and implementing projects to improve screenings efficiency and cut cost:

- Built dynamic **Kafka** stream processing system in **python Flask** to handle and process **100 QPS** of incoming document requests with > **four 9s** success rate.
- Led research into leveraging **computer vision** for document image-processing (OCR, Barcode Scanning, Blurriness Detection, Document Type Detection).
- Built a new vehicle inspections system in **python Tornado** that improved user experience and cut down average turnaround time from ~2 hrs to ~1 min.

Drove organization wide effort to standardize, automate collection of, and report vital **system metrics** of all services (Success Rate, Latency, Request Volume, Exception Count, and Unit Test Coverage). We went from zero coverage to 100% data collection of all 5 metrics for 110 services.

Built realtime **Kafka** stream processing system in **Apache Samza (Java)** that evaluates all drivers and ensures compliance against a complex hierarchy of national, regional, and local standards and regulations. All drivers are evaluated prior to all logins.

LinkedIn *Software Engineer*

June 2013 – March 2015

Developed support for sending invitations through sms to boost member growth internationally by leveraging LinkedIn members' phone graph.

Expanded and optimized the People You May Know flow through ownership of the service, improving impact on signups and speeding up load times.

INTERNSHIPS

Microsoft *Software Engineering Intern*

May 2012 – August 2012

Developed SQM (software quality metrics) for the iPhone platform as software development intern.

Qualcomm *Software Engineering Intern*

May 2011 – August 2011

Co-invented and prototyped a patent-pending wireless health and wireless payment related framework as an engineering intern.

Proofpoint *Software Engineering Intern*

June 2010 – May 2011

Created data reporting dashboard to graph out the performance of various vital services over time. This was essentially a datadog or grafana like dashboard for important metrics.

SKILLS

- Asynchronous Programming, All-Active Architectures, Service Oriented Architecture (Microservices)
- Kotlin, Python, Javascript, Golang, Java, C++, C, Objective C, Perl, PHP, Ruby, CSS, HTML
- Mysql, PostgreSQL
- Git, SVN
- Flask framework, Tornado async web framework, Kafka, Samza, nodejs
- Kubernetes, aws systems

SELECT SIDE PROJECTS

Document Intelligence

December 2015 – January 2016

Developed machine learning system to provide real time feedback on documents. Leveraged OpenCV and Tensorflow to evaluate document photographs on blurriness and type detection.

Singularity Chess

September 2012 – February 2013

Developed android app that presents the game of chess on a board that has been warped by a singularity at its center. Google Play Store link

Poldex

November 2011 – March 2012

Worked in a team of 3 to create a community driven polling website that leverages crowd wisdom to provide answers for users. We used Ruby on Rails, PostgreSQL, ElasticSearch, and D3.js. Acquired 4,500 users during the first 2 months of operation.