

# Bobby Chen

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**Technical Skills:** Java, Python, JavaScript/TypeScript, SQL, Linux, Docker/Kubernetes, AWS

**Domain Expertise:** Backend, Distributed Systems, Cloud Infrastructure, Web Frontend

## Education

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### Harvard University

Class of 2022

- B.A. in Applied Mathematics
- Language Citation in Mandarin Chinese

## Work Experience

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### Airbnb

#### Software Engineer (Payments)

Aug 2022 - Present

- Increased 2023 revenue from reservations by \$1M+ by reducing false positives in risk detection.
- Designed and built a user verification challenge to prevent credit card chargeback fraud.
- Handled on-call and incidents related to online payments processing and hourly data pipelines.
- Productionized ML models for risk detection into Airbnb's financial fraud defense system.

#### Software Engineering Intern (Infrastructure)

May 2021 - Aug 2021

- Designed and built an internal developer tool with 500+ WAU that samples payloads from live Airbnb web traffic and anonymizes data for safe testing and training
- Automated the generation of documentation for 100+ services and their RPC APIs.



### Dagster

#### Software Engineer

Sept 2020 - March 2021

- Contributed open-sourced code to Dagster, a cloud-native data pipeline orchestrator.
- Interviewed data engineers and ML engineers from companies, including Apple, DoorDash, and Drizly, to understand pain points in their existing data infrastructure.
- Operated testing environments for deploying Dagster data pipelines on AWS, GCP, and Azure.
- Built demos for prospective customers to showcase how Dagster scales horizontally on the cloud.



### Intel

#### Technical Marketing Intern

June 2020 - August 2020

- Published documentation and technical marketing copy for Intel hardware plugins on Kubernetes.
- Designed and delivered a marketing demo to showcase 5x Redis performance (operations per second) when using Intel Optane Persistent Memory compared to disk.
- Answered customer questions about Intel's open source projects at KubeCon EU 2020.



### DataCamp

#### Software Engineering Intern

May 2018 - July 2018

- Reduced search query latency by 83% and improved relevancy and typo resistance by replacing a naive SQL query with Algolia Search API.
- Decreased the main website's page load time by reducing JavaScript bundle size by 15%.



### Harvard Project for Asian and International Relations

#### Volunteer Full-Stack Web Developer

Sept 2017 - May 2020

- Designed and built a web app for handling conference marketing and ticket sales, used by 1000+ monthly applicants from 70+ countries around the world.
- Created a web-based analytics dashboard for our team executives and sponsors to understand applicant demographics and attendee engagement.