

Bobby Chen

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Education

Harvard University

Class of 2022

- B.A. in Applied Mathematics, with a focus in Computer Science
- Language Citation in Chinese (Mandarin)

Technical Skills: Python, Java/Scala/JVM, SQL/dbt, TypeScript/React, Linux, Docker/Kubernetes, AWS/GCP/Azure

Work Experience

Airbnb

Software Engineer G7 (Payments Data & Risk)

Aug 2022 – Present

- Integrated machine learning models and heuristic rules into Airbnb's financial fraud defense system.
- Design, launch, and analyze results from A/B tests to prevent credit card fraud while minimizing impact to non-fraudulent Airbnb users.
- Handled on-call and incidents related to payments processing and hourly data pipelines.

Software Engineer Intern (Platform Infrastructure)

May 2021 – Aug 2021

- Built infrastructure for enabling Airbnb's transition from monolithic to service-oriented architecture.
- Automated the generation of documentation for 100+ microservices and their RPC APIs.
- Designed, tested, and launched an anonymization tool to hide PII in service RPC payloads.
- Delivered an internal service RPC testing tool, using sample payloads from live Airbnb traffic.

Dagster

Software Engineer Fellow

Sept 2020 – March 2021

- Contributed open-sourced code to Dagster, a cloud-native data pipeline orchestrator.
- Interviewed data engineers and machine learning 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 Engineer 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 Engineer Intern (Full Stack Web)

May 2018 – July 2018

- Revamped DataCamp's course search by replacing naive SQL with Algolia Search API, resulting in higher relevancy, higher resistance to typos, and lower query time (from 6 seconds to 1 second).
- Decreased the main website's page load time by reducing JavaScript bundle size by 15%.

Harvard Project for Asian and International Relations

Director of Technology

Sept 2017 – May 2020

- Managed a team of 4 software engineers to build a web app for handling conference marketing and ticket sales, used by 1000+ monthly applicants from 70+ countries around the world.
- Designed and implemented REST API endpoints for the conference mobile app, downloaded and used by 500+ conference attendees.
- Built an analytics dashboard for our team executives and sponsors to understand applicant demographics and attendee engagement.