Bobby Chen

Email: chenbobby168@gmail.com | Website: chenbobby.com | LinkedIn: linkedin.com/in/chenbobby168

Technical Skills: Python, JavaScript/TypeScript, SQL, Linux, Docker/Kubernetes, AWS/GCP/Azure
Domain Expertise: Full-Stack Web Development, Data Analysis, Cloud Infrastructure

Education

Harvard University
Class of 2022
- **B.A. in Applied Mathematics**, with a focus in Computer Science
- **Language Citation in Chinese (Mandarin)**

Work Experience

Airbnb

Software Engineer (Payments Data & Risk)
Aug 2022 – Present
- Designed and built a web app for monitoring and investigating fraud exploits and user risk profiles
- Handled on-call and incidents related to online payments processing and hourly data pipelines.
- Increased annual revenue from reservations by $1M+ by reducing false positives in risk detection.
- Productionized ML models for risk detection into Airbnb's financial fraud defense system.

Software Engineering Intern (Distributed Infrastructure)
May 2021 – Aug 2021
- Designed and built a web-based interface testing tool by using sample payloads from live Airbnb traffic and an automatic anonymization filter to hide sensitive data
- 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 (Full–Stack Web)
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

Full–Stack Web Developer
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.
- Built a web-based analytics dashboard for our team executives and sponsors to understand applicant demographics and attendee engagement.
- Containerized and deployed REST API endpoints on Google Cloud Platform's Kubernetes Engine