# **Jay Jayabose**

## Profile

I'm a software engineer with multiple years of experience in JavaScript and Ruby and proficiency in TypeScript, Go, and various frameworks. Drawing on my business-side experience in early-stage ad-tech companies, I contribute commercial perspective and experience collaborating across functions and with customers.

## **Experience**

## **Software Engineer,** Arbiter (https://arbiter-framework.com)

2023 – present | Remote

Arbiter is an open-source, framework that seamlessly integrates room-based video conferencing into web applications and automates deployment to AWS

- Designed, prototyped, and built a video conferencing server (Selective Forwarding Unit) that distributes media streams, and manages call state for 15+ participants in a single room
- Developed a signaling server that enables negotiation of WebRTC connections and synchronizes call state among participants (WebSocket API Gateway, Lambdas, DynamoDB)
- Wrote a RESTful API to manage backend interactions between the frontend application and AWS infrastructure that provisions new ECS container instances to meet user demand (React, HTTP API Gateway, Lambdas)
- Containerized server components and designed a scaling mechanism that reduces complexity of server deployment by 10+ steps and enables API-based scaling (Docker, ECS, Fargate)
- Worked on CLI tool that automates the provisioning of AWS cloud infrastructure (ECS Clusters, WebSocket Gateway, HTTP API Gateway, IAM roles, etc.), reducing a 50+ step workflow to a single command
- Decoupled services based on traffic patterns and resolved race and concurrency challenges associated with eventdriven architecture
- Implemented a pair-programing framework for a remote team of 3 engineers to foster mentorship and collaboration, resulting in increased team-wide ownership of code and clarity on technical decisions
- Authored a comprehensive technical case study providing analysis of Arbiter's problem domain, system design, and engineering decisions (arbiter-framework.com/case-study  $\mathscr{O}$ )

# Software Engineer, Self-Employed

2022 - 2023 | Remote

Selected Projects

- DreamCatcher: Tool for debugging webhooks, built with Node.js, Express, MongoDB, Digital Ocean Droplet, Nginx
- Shoply: E-commerce shopping cart, built with React, Node.js, Express, RESTful API, MongoDB
- Donzo: task management application, built with Ruby, Sinatra, ERB, RESTful API, PostgreSQL

#### **General Manager,** Pursuit ⊘

2021 – 2022 | New York, NY

• Led a 40-person team operating the Pursuit Fellowship, which transforms the lives of New Yorkers with the most need and potential by training them to code and build careers in tech.

## **Customer Success Team Leader,** Multiple Ad-Tech Startups

2005 – 2020 | New York, NY

I worked at the Manager, Director, and, Vice-President levels in three tech companies operating platforms related to e-commerce, predictive analytics, and performance media: Acxiom  $\mathscr D$ , Proclivity  $\mathscr D$ , and <Intent>  $\mathscr D$ 

- Key contributor to company strategy, quarterly OKRs, and M&A and capital raise processes
- Led a team of 15 in NY and London that managed 200+ advertiser accounts and over \$100MM revenue
- Partnered with the product team to develop novel media products for Expedia, Inc.
- Worked with product and engineering to pivot a 20-person company to a display advertising business

## **Skills**

#### **Languages & Frameworks**

Cloud

# **Other Technologies & Tools**

JavaScript, Ruby, TypeScript, Go, SQL, HTML/CSS, Node, Express, Sinatra, React, JQuery, Handlebars AWS EC2, ECS, Fargate, DynamoDB, Lambda, HTTP/WebSocket API Gateways, Cloudformation, IAM; Heroku, Digital Ocean Droplet Git/Github, MongoDB, PostgreSQL, Docker, Nginx, PM2, REST APIs, HTTP, WebSockets, Linux, Bash, Postman

#### Education

M.B.A., Georgetown University

Washington, DC,