Jessica Chang

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Technical Projects

Bubble, *https://bubble-framework.github.io* ⧉   2022
Bubble is an open-source framework for deploying dynamic front-end preview apps.
- Engineered the automatic provisioning, management, storage (DynamoDB), and teardown of preview app resources, which I integrated with GitHub Actions to trigger these processes in response to GitHub pull request events
- Architected lightweight, auto-scaling preview app infrastructure with hybrid support for server-side rendered and statically generated pages using AWS CloudFront, S3, and Lambda@Edge via Serverless Framework
- Prioritized cost-efficient solution with pay-for-execution serverless computing and automated destroy functionality to minimize excess resource use
- Built two user interfaces for developers to easily integrate Bubble into their workflow:
  ◦ A CLI for initial setup and management of deployed preview apps at a repository level
  ◦ A visual dashboard developed with React, Express, and TailwindCSS for intuitive access to preview apps and build logs across all active repositories
- Implemented the configuration of AWS IAM users under the principle of least privilege
- Authored a comprehensive case study on the problems Bubble solves, and the design decisions and tradeoffs made while building Bubble (https://bubble-framework.github.io/case-study ⧉)
- Collaborated closely with a remote team of 4 engineers across 3 time zones

Launch School   2020 – 2022
Capstone Program
- PotatoBin - A real-time tool for receiving and monitoring webhooks (DigitalOcean Droplet, Express, Material UI, MongoDB, Nginx, Node.js, PM2, PostgreSQL, React)
- TaskFlo - A Kanban board for project management (Express, MongoDB, Node.js, React/Redux)

Mastery-based Learning
- Developed open-source web applications with technologies such as CSS, HTML, JavaScript, Node, PostgreSQL, React, Ruby, and Sinatra

Professional Experience

Teaching Assistant, *Launch School*   2021 – 2022
Led weekly study groups teaching problem-solving processes, performed code reviews for student projects, evaluated written and live interview assessments to determine student mastery of core programming concepts, and wrote newsletters distributed to the Launch School community of 4000 students and alumni

Buyer/Merchandiser   2015 – 2022
Optimized seasonal omnichannel assortment strategies at fashion and e-commerce companies including Moda Operandi, Marc Jacobs, Ann Inc., and Barneys New York. Most recently, as Director of Merchandising at Marysia, managed a team of 18 employees and drove 50% YOY growth

Skills

Languages
JavaScript, Ruby, Go, SQL, CSS, HTML, TypeScript

Frameworks
React/Redux, Express, Handlebars, jQuery, Next.js, Sinatra

Cloud
AWS (CloudFront, DynamoDB, EC2, ECS, IAM, Lambda, Lambda@Edge, S3), DigitalOcean (Droplets), Heroku

Other Technologies
Git, GitHub Actions, MongoDB, Node.js, PostgreSQL, RESTful APIs, Bash, Docker, Webhooks

Education

Software Engineering & Web Development, *Launch School*   2020 – 2022

M.B.A., Fashion Management & Entrepreneurship, *LIM College*   2014 – 2015

B.A., Economics, *Duke University*   2009 – 2012