Yueun Kim

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Summary

I am a full-stack software engineer with a passion for collaborating to solve challenging problems. I have experience with the JavaScript, Ruby, and Go ecosystems. Most recently, I created Cascade ⧉ , an open-source containerized application deployment solution with automated observability built with Node.js/Express, OpenTelemetry, React, and Terraform CDK for TypeScript.

Experience

2022 – present	**Creator, Software Engineer**

Cascade (https://try-cascade.github.io ⧉)
- Led an ideation process of prototyping Cascade, an open-source containerized application deployment solution with built-in support for observability
- Built an NPM package for tracing instrumentation compatible with AWS Distro for OpenTelemetry Collector and AWS X-Ray
- Constructed Cascade's Backend API to collaborate with the Terraform CDK and Cascade Frontend to automate deployment in a 3-step process
- Developed a GUI that allows users to deploy and destroy their containerized applications with one click and view resource creation statuses real-time via SSE
- Automated deployment using Docker (images, docker-compose)
- Authored a comprehensive technical case study on design decisions and challenges of building Cascade
- Collaborated with a remote team of 4 engineers across 3 timezones using agile workflow

2020 – 2022   Software Engineer

Open-source web applications and Launch School experience
- Developed open-source software using Ruby, Node.js, Express, React, PostgreSQL, MongoDB, HTML/CSS, and more
- Selected projects:
  - Yarn Basket: a real-time webhook debugging tool with custom endpoints (Node.js, Express, Handlebars, MongoDB, PostgreSQL, DigitalOcean Droplet, Nginx, PM2)
  - The Shoppe: a database-backed e-commerce app (Node, React, MongoDB, Docker)
  - Flight Tracker: an SVG map for filtering and viewing airline routes (React, Docker)

2014 – 2020   Director of Piano Performance

Vivaldi Music Academy
- Crafted curricula for the piano department, trained piano instructors, and conducted masterclasses and private lessons contributing to the highest growth rate in academy history expanding from one to four locations in the Greater Houston area

Skills

Backend	**Frontend**	**Tooling**
Node.js, Express, Ruby, Go, PostgreSQL, MongoDB, RESTful APIs	JavaScript, TypeScript, React, Jest, HTML/CSS, Tailwind CSS	Git/GitHub, Docker, Linux, Bash, OpenTelemetry, AWS (S3, SQS, EC2, ECS), Terraform

Education

Rice University, *Master of Music, Piano Chamber Music*

Northwestern University, *Master of Music, Piano Performance and Pedagogy*

Eastman School of Music, *Bachelor of Music, Piano Performance*