

# Yueun Kim

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## Summary

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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

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2022 – present

### Creator, Software Engineer

*Cascade* (<https://try-cascade.github.io> [🔗](#))

- Prototyped and built Cascade, an open-source containerized application deployment solution with support for observability
- Streamlined the build and teardown processes of AWS infrastructure creation using Terraform CDK for TypeScript
- Published an NPM package for tracing instrumentation compatible with AWS Distro for OpenTelemetry Collector and AWS X-Ray
- Constructed an API server for communication with the AWS SDK
- Designed a GUI for visualization of resource creation statuses real-time via SSE
- Automated installation of Cascade 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

### Full-Stack Web Developer

*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, and trained piano instructors
- Conducted masterclasses, workshops, and private lessons to students
- Toured with faculty and student performers contributing to the highest growth rate in academy history expanding from one to four locations in the Greater Houston area

## Skills

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### Backend

Node.js, Express, Ruby, Go,  
PostgreSQL, MongoDB, RESTful  
APIs

### Frontend

JavaScript, TypeScript, React,  
Jest, HTML/CSS, Tailwind CSS

### Tooling

Git/GitHub, Docker, Linux, Bash,  
OpenTelemetry, AWS (S3, SQS,  
EC2, ECS), Terraform

## Education

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**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*