

# Yoorhim Choi

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## Experience

**Creator, Software Engineer, Fána** ([www.fana-io.github.io](http://www.fana-io.github.io))    2022 – present

Fána is an open-source feature flag platform specializing in audience targeting. Containerized with Docker and deployed on AWS.

- Designed a scalable, event-driven system composed of: backend API service, reverse proxy streaming service, admin dashboard, and SDKs (Go, Node.js, React, PostgreSQL, Redis).
- Streamlined deployment of a multi-container application using Docker.
- Automated deployment on load-balanced ECS Fargate using AWS's Cloud Development Kit (CDK) to create and configure constructs via infrastructure as code (IaC).
- Controlled network traffic to AWS resources within VPC by adding security groups.
- Developed REST API endpoints and utilized GORM (ORM library for Go) to query the PostgreSQL database.
- Optimized latency by incorporating a Node.js reverse proxy to reduce external requests to the backend API service.
- Integrated Redis multi-channel pub/sub and datastore layer to decouple message middleware and data provisioning.
- Implemented real-time event notifications using EventSource API to manage server-sent events (SSE).
- Improved application security to prevent sensitive information from being exposed via client-side, React SDK.
- Contributed to unit-testing evaluation algorithm.
- Authored documentation and technical case-study ([fana-io.github.io/case-study.html](http://fana-io.github.io/case-study.html)) on design decisions and engineering challenges.

**Software Engineer, Open-source web applications**    2021 – 2022

Developed open-source web applications with technologies such as Ruby, JavaScript, Node, PostgreSQL, React, HTML, and CSS.

- RequestBucket - a Node.js application that captures and monitors webhooks (Express, MongoDB, PostgreSQL, deployed on DigitalOcean Droplet with Nginx and PM2)
- Frello - a Node.js collaboration application (Express, MongoDB, and React/Redux)
- Task Manager - a Sinatra application for organizing tasks (Ruby, PostgreSQL, and deployed on Heroku)

**Manager of Valuation & Capital Market Analysis, BDO USA, LLP**    2015 – 2022

- Balanced competing priorities and mapped workflow for project scope and timeline. New York, NY
- Facilitated communication between internal and external stakeholders to understand client needs and find solutions to their unique requirements.

**Engineer, Skanska | Aaes Engineering**    2010 – 2015

- Led a Northeast regional initiative to integrate 3D rendering within the workflows between architects and engineers. New York, NY
- Value-engineered structural designs to save 15%+ from overall construction cost.

## Skills

### Library | Framework

Sinatra, Express, React, Redux, Jest, Handlebars, Gorilla Mux, GORM

### Languages

JavaScript, Go, Ruby, SQL, HTML, CSS

### Cloud

AWS (CDK, CloudFormation, EC2, ECS, Fargate, RDS, ElastiCache, ECR), DigitalOcean Droplet, Heroku

### Technologies

Docker, Node.js, PostgreSQL, MongoDB, Redis, Nginx, PM2, WebSockets, EventSource, Git/GitHub,

## Education

**The Cooper Union, BE, Civil Engineering**    2006 – 2010

**Launch School, Software Engineering (Capstone Program)**    2021 – 2022