



Yoorhim Choi

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Experience

Creator, Software Engineer, Fána (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)  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
New York, NY

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

Engineer, Skanska | Aaes Engineering 2010 – 2015
New York, NY

- Led a Northeast regional initiative to integrate 3D rendering within the workflows between architects and engineers.
- 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