Kevin Dong

🌐 | kefan.me
🐙 | github.com/k27dong
in | linkedin.com/in/k27dong
@ | me@kefan.me

skills

Languages:

Java, Rust, Python, C++, TypeScript, SQL, Ruby, CUDA, Verilog, VHDL

Frameworks:

React, Sprint Boot, Flask Astro, Actix, Tailwind

Technologies:

AWS, Docker, K8s, Nginx Jenkins, Gradle, Kafka, Spinnaker, PyTorch

open sources

kefan.me | ○

Full-stack website built with **Astro** (SSR/SSG) and **Rust** backend, deployed via CI/CD. Achieved 90% font reduction and near-perfect Lighthouse scores through static-first optimization.

bamboo | ○

Cloud-deployed **TypeScript** Discord bot for 5K+ guilds, using WebSockets for real-time control and **FFmpeg**/Opus for low-latency streaming, with horizontal scaling and 99.95% uptime.

kotetsu | ○

IoT device for RPi written in **C**, featuring EPD display control via SPI, GSheets/libcurl API integration, and OTA update capability.

work experiences

Autodesk | Software Engineer

Toronto, Canada • Dec 2023 - Present

- Led the global bi-weekly releases of Fusion Team backend via J**enkins CI/CD** and **Spinnaker** pipelines, automating **Amazon S3**-based secret rotations and zero-downtime **Aurora DB** migrations.
- Implemented **canary deployments** with **Splunk** & **Grafana** monitoring for safe feature rollouts and real-time performance validation.
- Developed **Python** health dashboard for Autodesk Fusion services to streamline load testing with **ECS** container integration.
- Developed **Java Spring Boot** services, including legacy API migration delivering 30% faster responses by implementing **Redis** caching and enhancing **Elasticsearch** performance.
- Introduced **Codacy** to enforce coding standards, resolving more than 75,000 style issues through **Gradle** task automation.

BetterUp | Software Engineer

San Francisco, United States • Jan - Apr 2022

- Built data pipelines with **Ruby on Rails** and **Ember.js**, optimizing ActiveRecord queries to reduce 95th percentile latency by 40%.
- Redesigned appointment management system with distributed **Memcached** caching and **PostgreSQL**.
- Resolved critical tech debt by replacing **JSP** and **jQuery** with **RESTful** APIs and **GraphQL**.
- Scaled unit test converge to 80% with **RSpec** and **SemaphoreCI**.

CIBC | Software Engineer

Waterloo, Canada • May - Aug 2020

- Developed full-stack web application with **Flask** and **React**.
- Deployed containerized applications on **AWS** using **Docker** and **Nginx**, reduced image size by 600 MB through multi-stage builds.

  ... and four prior internships.

education

University of Waterloo

Bachelor of Applied Science - BASc
Computer Engineering 2018 - 2023