Kevin Dong

🌐 | kefan.me
🐙 | github.com/k27dong
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skills

Languages:

C/C++, Rust, Python, Java, JavaScript, SQL, Ruby, CUDA, Verilog, VHDL

Technologies:

AWS, Azure, Node.js, React.js, Spring Boot, Docker, K8S, Nginx. RTOS, Compilers, Computer Networks, Computer Security, Adaptive Algorithms

open sources

kotetsu | 🐙

An automated IoT solution using RPi and EPD written in pure C. Utilized libcurl for API calls and Google Sheets as cloud databases. Managed data rendering via SPI interface and generation of bitmap graphics.

kefan.me | 🐙

Full-stack web app built with React and Rust, containerized with Docker and Nginx, deployed to GCP with K8S.

Bamboo | 🐙

High-performance music streaming service for Discord, effectively catering to over 800 servers.

work experiences

Autodesk | Software Engineer

Toronto, Canada • Dec 2023 - Present

- Developed a Python-based tool to streamline load testing for Autodesk Fusion services, which is essential for real-time monitoring on Health Dashboards post-release. Implemented Jenkins support for ECS container accessibility.
- Worked on legacy API migration in Java Spring Boot, optimized performance through new caching mechanisms and Elasticsearch integration, reducing backend response times.
- Introduced Codacy to improve code quality, resolving more than 75,000 code style issues with refined Gradle build processes.
- Performed backend tests using Mockito with JUnit, enhanced data visualization and reporting with Splunk and Kibana.

BetterUp | Software Engineer

San Francisco, United States • Jan - Apr 2022

- Independently designed and implemented data pipelines for users' profile pages with Ruby on Rails and Ember.js.
- Revamped the onboarding process for user appointment management with Memcached and PostgreSQL.
- Modernized the infrastructure by transitioning from legacy JSP and jQuery to RESTful APIs and GraphQL.
- Expanded 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.js.
- Deployed containerized applications on AWS using Docker and Nginx, reduced image size by 600 MB through multi-stage builds.

education

University of Waterloo

Bachelor of Applied Science - BASc
Computer Engineering 2018 - 2023