Kevin Dong

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Languages: Java, Rust, Javascript, C++, TypeScript, Python, Ruby, R, Verilog, VHDL, CUDA
Technologies: Docker, K8S, Nginx, Node.js, React, Spring Boot, Ruby on Rails, Jenkins, Mocha

Education

University of Waterloo | Bachelor of Computer Engineering   Sep 2018 - Aug 2023
Relevant courses: RTOS, Compilers, Data Structures & Algorithms, Computer Networks, Database Systems

Experiences

Autodesk | Software Developer   Toronto, Canada | Sep 2022 - Dec 2022
- Led a legacy API migration in Java Spring Boot, enhancing Fusion 360's performance by introducing caching mechanisms and Elasticsearch support. Reduced backend call loading times by 30%.
- Conducted comprehensive testing of backend endpoints and services using Mocha, ensuring reliability and optimal performance. Created detailed documentation to support ongoing development.

BetterUp | Software Engineer   San Francisco, United States | Jan 2022 - Apr 2022
- Utilized Ruby on Rails and Ember.js to develop and maintain a high-performance full-stack web application.
- Revamped the data pipeline architecture for user appointment management with PostgreSQL and Memcached, resulting in a more streamlined process and an improved user experience.

PointClickCare | Software Engineer   Toronto, Canada | Jan 2021 - Apr 2021
- Wrote and maintained scalable Spring Boot services in MVC pattern to efficiently handle data entry for over 10,000 users. Conducted through testing using Selenium with Jenkins.

CIBC | Software Developer   Waterloo, Canada | May 2020 - Aug 2020
- Constructed and deployed a full-stack web application using Flask and React, containerized with Docker for streamlined deployment on AWS.
- Designed a multi-threaded media pipeline with CUDA, enabling GPU acceleration for H264 video encoding and conversion, which led to a significant reduction in CPU usage by 30%.

Safyre Labs | Full Stack Developer   Toronto, Canada | Sep 2019 - Dec 2019
- Implemented Ruby on Rails during the launch of the company's new product Lee Fiori, while leading the transition from legacy JSP and jQuery to modern GraphQL.

Big River Technologies Inc. | Software Developer   Gananoque, Canada | Jan 2019 - Apr 2019
- Participated in debugging Laravel-based applications and creating documentations for customers.

Projects

Personal Website | Flask, React, Nginx, Docker, GCP, K8S
- Built a full-stack web application with React and Flask, used Nginx as middleware and containerized with Docker, deployed to GCP with K8S.

Ozy | Node.js, Discord.js, Event-Driven, WebSocket
- Implemented a high-performance music streaming plugin for Discord, effectively catering to over 700 servers and elevating the experience for more than 75,000 users.

Kotetsu | C, Embedded Systems
- Automated IoT built with RPi and EPD display, leveraging libcurl and SPI interface for content rendering.
- Developed the solution in pure C.