Kevin Mok

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Web Dev Projects

Rarity Surf

March 2025

TypeScript, JavaScript, Node.js, React

- Developed a full-stack web application (TypeScript/JavaScript) to generate rarity rankings for NFTs, integrating with a leading marketplace API to help users identify rare NFTs and listing status, improving market research efficiency by 80%.
- Built a scalable Node.js backend with REST API endpoints and PostgreSQL-backed caching to support filters such as max rank, price, and rare traits while handling 3,000+ concurrent requests.
- Built a dynamic React frontend (TypeScript/JavaScript) to load and display NFTs in real-time with user-defined filters, reducing load times by 50%.
- Developed a Discord bot (TypeScript/JavaScript/Node.js) to notify users of profitable resale opportunities using historical sales data, increasing user engagement by 80%.

Kanban Calendar

Mar 2024

TypeScript, JavaScript, React, Next.js

- Developed a responsive calendar Kanban board using Next.js, TypeScript, and Tailwind CSS, featuring draggable events and smooth card-to-detail transitions across week/day views.
- Engineered cross-device interactions including swipe gestures, infinite horizontal scrolling (mobile), and arrow controls (desktop) while improving drag-and-drop consistency.

Astronofty

Jan 2023

JavaScript, React, Solidity

- Secured 2nd place overall out of 150+ teams at UofTHacks X for developing a blockchain-based NFT marketplace app.
- Built and optimized React components to synchronously upload images and metadata to IPFS, enhancing user engagement by 80% during the demo.

Work Experience

Red Hat

Cloud/Software Engineer Intern May 2022 — Aug 2023

Kubernetes, GoLang, Jenkins

- Eliminated 80% of manual configuration errors by enabling the Kubernetes operator to fetch service data and update configuration defaults automatically, reducing startup time by 40%.
- Reduced deployment time by 66% by shipping a CLI workflow for locally-compiled binaries on Kubernetes/OpenShift, cutting release time from 45 minutes to 15 minutes.
- Improved stability with startup probes for legacy services, reducing startup-related failures during production launches by 50%.
- Improved system reliability by refactoring probe defaults from YAML sources, increasing probe accuracy by 30% and preventing misconfigurations.
- Increased CI efficiency by rewriting a Jenkins nightly pipeline for GitHub PR environments, reducing manual intervention by 60%.

Skills

TypeScript, **JavaScript**, **React**, **Node.js**, **Python**, **Django**, **PostgreSQL**, **MongoDB**, **Bash**, **Git**, **Linux**, **Command Line**, **Go(Lang)**, **AWS**, **Kubernetes**, **Terraform**, **Docker**, **Compose**, **Jenkins**, **Groovy**, **Solidity**, **C**

Education

University of Toronto (St. George)

Computer Science Specialist

3.84 GPA (CS). Graduated with High Distinction.

2019 — 2024