

[Kevin Mok] # _

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Work Experience

Red Hat

May 2020 – Aug 2021

Cloud/Software Engineer Intern

- Reduced deployment time by **66%** by implementing ability to deploy locally-compiled binaries onto **Kubernetes/OpenShift** using only command-line.
- Implemented ability for Kubernetes operator to fetch data from a deployed service and update config with data.
- Added startup probes to handle starting legacy application containers that require additional startup time.
- Refactored probes to have default values assigned based on deployed YAML while also fixing reconciliation issues.
- Automated the promotion and release process as part of the **Jenkins** release pipeline.
- Wrote documentation on how to get started with the project to onboard new developers and mentored the incoming intern.

Projects

Custom Kernel Module ▼

Jan. 2022

- Wrote and installed a [custom Linux kernel module](#) in C.
- Intercepted pre-existing system calls using custom kernel module by sending commands to userspace.
- Monitored specific process ID's in my system call to intercept their system calls.

Personal Server ▼

Aug. 2019 – present

- Deployed [various web apps](#) with backends using NGINX on a Debian/**Linux** server.
- Wrote a [JavaScript script](#) and [systemd service/timer](#) to display the uptime of my pages every hour.
- Monitored system resources and performed system maintenance using tmux.

Rarity Surf ▼

Oct 2021

- Web app to give rarity rankings to NFT's within minutes of their metadata being revealed and check which are listed (based on rarity and price filters) on the OpenSea marketplace using their API.
- Reverse engineered the ranking algorithm to match the leading rarity ranking site's rankings (scraped using Selenium) with a **discrepancy of <0.25%**.
- Used app to frontrun purchases of **top 5%** rarity NFT's against competing buyers.
- Wrote **Django (Python)** backend to fetch metadata from IPFS, store rarity rankings in PostgreSQL and serve rarity data using GraphQL.
- Wrote **React** frontend with hooks to dynamically load rarity data. Styled with Tailwind.

Skills

Kubernetes, **JavaScript**, **React**, **Python**, Go, Bash, Solidity, C, **Django**, Node.js, Jenkins, PostgreSQL, **Linux**, **Git**, **Command Line**

Education

University of Toronto

2018 – 2023

Computer Science Specialist – 3.84 GPA (CS). Graduated with High Distinction.

References

See my [LinkedIn](#) for references from my Red Hat managers/mentee and a startup client.