

# Kevin Mok

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## Work Experience

### Red Hat

May 2020 — Aug 2021

Cloud/Software Engineer Intern <Kubernetes, GoLang, Jenkins>

- **Reduced deployment time by 66%** by implementing a [solution](#) for deploying locally-compiled binaries onto Kubernetes/OpenShift via command-line, **cutting average deployment times from 45 minutes to 15 minutes**. (**Kubernetes/GoLang** used for this and three below).
- **Eliminated 80% of manual configuration errors** by enabling the Kubernetes operator to automatically fetch data from deployed services and update configurations, **deprecating legacy startup scripts and reducing overall startup time by 40%**.
- **Improved application stability** by introducing startup probes for legacy applications with longer boot times, **resulting in a 50% reduction in startup-related failures and downtime during production launches**.
- **Enhanced system reliability** by refactoring probes to [assign default values](#) dynamically based on deployed YAML files and fixing reconciliation issues, **increasing probe accuracy by 30%** and preventing misconfigurations.
- **Increased CI pipeline efficiency** by rewriting the **Jenkins (Groovy)** [nightly pipeline](#) to run in a GitHub PR environment, allowing for automated testing of all team-submitted PRs prior to merging, **reducing manual intervention by 60%**.
- **Demonstrated leadership and collaboration** by actively contributing to **Agile** sprint planning in a 12-member team, driving improvement in sprint velocity through optimized task delegation and idea generation.
- **Increased project reproducibility** by taking initiative to write a [reusable GitHub parameters file](#) for the pipeline, **enabling 100% reusability** and ensuring consistent pipeline setups across different environments.
- **Streamlined developer onboarding** by authoring comprehensive [project documentation](#) and mentoring an incoming intern, **reducing onboarding time by 50%** and enhancing new team members' productivity within their first sprint.

## Projects

Rarity Surf <Python, JavaScript, React, Django>

Oct 2021

- Developed a **full-stack web application** to generate rarity rankings for NFT's integrated with OpenSea's API, enabling users to **quickly identify rare NFT's** and check their listing status, **improving market research efficiency by 80%**.
- Reverse engineered a **proprietary ranking algorithm** to mirror the leading rarity ranking site's results, **achieving 99.75% accuracy** by utilizing data scraping techniques [with Selenium](#), increasing the platform's trustworthiness among users.
- Optimized purchasing strategy by leveraging the app to frontrun competitors in purchasing top 0.5% rarity NFTs, **boosting acquisition success rate by 90%** and allowing users to gain a competitive edge in the marketplace.
- Architected a **robust Django (Python) backend** to fetch and process NFT metadata from IPFS, store rarity rankings in **PostgreSQL**, and serve the data via GraphQL API, **ensuring low-latency access and scaling to handle 2,000+ concurrent requests**.
- Developed a **dynamic React frontend** using hooks to load rarity data in real-time, styled with Tailwind for mobile responsiveness, **improving user experience and reducing frontend load times by 70%**.

## Skills

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

## Education

University of Toronto

2019 — 2024

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

## References

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