

# Kevin Mok

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## Projects

### Rarity Surf

Oct 2021

*Python, Django, JavaScript, React*

- Developed a full-stack web application to generate NFT rarity rankings integrated with OpenSea APIs, improving market research efficiency by 80%.
- Architected a Django (Python) backend to fetch and process NFT metadata from IPFS, store rankings in PostgreSQL, and expose data through GraphQL APIs at low latency.
- Developed a dynamic React frontend using hooks and responsive UI patterns, reducing frontend load times by 70%.

### Discord Adventure Game

Jan 2020

*Python*

- Redesigned item generation for an open source Python Discord game, replacing 83k-line static JSON with dynamic generation and reducing file size by 99%.
- Implemented modular item components that enabled 152,000+ unique item combinations and improved game diversity.

### Spotify Visualized

June 2019

*Python, Django*

- Built a high-performance Django backend that processed 10,000+ tracks per user library using the Spotify API.
- Optimized PostgreSQL data modeling and query paths to reduce latency by 50% for core workflows.

## Work Experience

### Red Hat

#### Cloud/Software Engineer Intern May 2020 — Aug 2021

*Kubernetes, GoLang, Jenkins*

- Reduced deployment time by 66% by implementing a local-binary deployment path on Kubernetes/OpenShift, cutting release cycles from 45 minutes to 15 minutes.
- Eliminated 80% of manual configuration errors by automating operator-side data fetching and config updates, reducing startup time by 40%.
- Improved application stability by introducing startup probes for legacy applications with longer boot times, reducing startup failures by 50%.
- Enhanced reliability by assigning probe defaults dynamically from deployed YAML and fixing reconciliation issues, increasing probe accuracy by 30%.
- Increased CI pipeline efficiency by rewriting a Jenkins nightly pipeline for GitHub PR environments, reducing manual intervention by 60%.
- Demonstrated leadership in Agile sprint planning within a 12-member team, improving sprint velocity through better task delegation.
- Increased reproducibility by creating a reusable GitHub parameters file for the pipeline, enabling consistent setup across environments.
- Streamlined onboarding by authoring project documentation and mentoring an incoming intern, reducing onboarding time by 50%.

## Skills

**Python, Django, JavaScript, React, Node.js, 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

2019 — 2024

## References

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