

# Kevin Mok

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## Projects

### AWS Server

May 2024

*AWS, Kubernetes, Docker, Terraform*

- Deployed and maintained multiple web applications on AWS EC2 Debian/Linux servers using Docker Compose, supporting 2,000+ monthly requests.
- Automated infrastructure provisioning with Terraform for EC2 instances and Docker workloads, reducing deployment time by 80%.
- Configured Route 53 DNS and NGINX subdomain routing to improve discoverability and navigation across hosted applications.
- Implemented uptime monitoring with a JavaScript service and systemd timer, reducing downtime by 95%.
- Automated EBS snapshot backups to improve disaster recovery readiness and reduce potential data loss by 95%.

## 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

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

## 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.