

Vincent Marone

Software Engineer

LANGUAGES

Go PHP
Python Bash
Javascript/Typescript
Java C
C++ SQL

TECHNICAL

Git Linux
CEPH S3
Kubernetes
NodeJS
Docker Nginx
BGP FRR
Ansible
Puppet
SQL (Mysql, Mariadb, Postgres)
NoSQL (MongoDB)
Redis
CI/CD Pipelines
Cloudinit
Vagrant
Packer
Qemu/KVM
Libvirt Vite
RabbitMQ
Terraform
gRPC
Prometheus
Loki

FRAMEWORKS

WORK EXPERIENCE

CoreWeave • Feb 2023 - Present

Senior Software Engineer I

- Led the decommissioning of CoreWeave's cw-node-controller, architecting and implementing its migration into the more efficient fleet-lifecycle-controller, resulting in streamlined node provisioning and management.
- Enhanced the node eviction process by designing a robust root-cause analysis system, enabling automated, data-driven eviction decisions and reducing manual intervention.
- Engineered seamless state synchronization between cw-node-controller and fleet-lifecycle-controller during migration, ensuring uninterrupted operations and zero downtime for customer workloads.
- Implemented comprehensive metrics for node eviction to give fleet-lifecycle-controller deeper insights into the node eviction process to help us meet SLI and SLO targets.

Provisioning Team Lead

- Took full ownership of critical infrastructure projects including fleet-lifecycle-controller, cw-node-controller, flcc-helper, epimetheus, and cwctl—key components forming the backbone of CoreWeave's node provisioning infrastructure.
- Applied deep technical expertise to manage complex interdependencies between systems, ensuring reliable delivery of healthy nodes to customer clusters and automated removal/replacement of unhealthy nodes, directly impacting revenue.
- Acted as a primary technical point of contact between the FLCC team and leaders in other engineering areas, keeping the team aligned with upstream dependencies, new designs, and strategic initiatives.
- Led design and implementation efforts across multiple high-impact systems, balancing urgent fixes with long-term scalability and efficiency goals.
- Introduced innovative processes to streamline node provisioning operations, improving stability, performance, and maintainability across the provisioning stack.
- Drove improvements in code quality and maintainability through rigorous code reviews, architectural guidance, and hands-on refactoring of complex systems.
- Proactively mentored and supported team members, guiding them through debugging, architectural decisions, and ownership of individual components to foster skill development and autonomy.
- Developed strategies to balance planned feature development with unplanned reactive work, helping to shift team operations toward a healthier 50/50 planned-to-unplanned workload.
- Implemented delegation practices to reduce bottlenecks, empowering team members to take on critical responsibilities and improving collective team throughput.
- Enhanced communication within the team through daily standups, collaborative troubleshooting sessions, and tailored communication approaches for different team members, increasing alignment and transparency.
- Strengthened leadership capabilities by managing multi-faceted, business-critical projects, coordinating work across parallel development streams, and maintaining focus under high-pressure timelines.
- Refined advanced problem-solving skills by designing scalable solutions that address cross-system complexities while minimizing downstream risk.
- Contributed to innovation and technical direction by identifying architectural improvements, evaluating trade-offs, and implementing solutions that support both immediate needs and long-term vision.
- Represented the team and CoreWeave leadership in strategic discussions, ensuring technical decisions align with business objectives.
- Cultivated a collaborative, high-performing team culture by fostering trust, respect, and shared accountability, fully embodying CoreWeave's values of "Achieve More Together" and "Empower Employees."

Infrastructure Engineer

- Designed and implemented lokiforward, enabling improved logging workflows.
- Fully rewrote Promforward, enhancing maintainability, scalability, and ease of adding future features.
- Built an automatic Mellanox NIC firmware upgrade tool to ensure all NICs maintain healthy, up-to-date firmware.
- Played a key role in building and maintaining cw-node-controller and cwctl, automating node provisioning and removing legacy controllers.
- Contributed/Built to multiple Kubernetes controllers (connectivity controller, HPC verification controller, label controller, condition controller), improving node health automation.
- Led the migration from Kyverno policies to jspolicy, enabling Kyverno phase-out and simplifying policy management.
- Proactively identified and implemented scalable design improvements in the node controller project, optimizing packaging, testing, and operational efficiency.
- Rapidly adapted to a new programming language and tech stack, delivering high-quality solutions in evolving project environments.
- Fostered a collaborative, respectful team culture, supporting new colleagues and encouraging open communication.
- Delivered tailored, high-quality solutions that consistently exceeded internal client expectations, enhancing team and company reputation.
- Actively sought and applied new technologies, maintaining cutting-edge skills and industry knowledge.
- Represented CoreWeave at KubeCon, effectively communicating product capabilities and generating new business leads.

Trader Interactive • Nov 2022 - Feb 2023

Controller-Runtime

Gin

Chi

Java Spring

Slim Framework

Laravel

PHPUnit

VueJS

Vuetify

jQuery

Bootstrap

PROFESSIONAL

Jira

Github

Gitlab

Vultr

DigitalOcean

Google Cloud

AWS

INTERESTS

Coding

Stocks

Videogames

Flying

Homelab

Biking

Hiking

Fishing

Snowboarding

Paintball

Hockey - NJ Devils

Movies

TV

Senior Software Engineer

- Migrated PHP 7.4 applications to PHP 8.0.
- Planned a migration path and upgraded from Laravel 7 to Laravel 8.
- Participated in Backlog Grooming, Daily Sprint Standups, and Sprint Planning.
- Improved automation of development environment for future onboarding of developers.

Constant LCC / Vultr • Jan 2019 - July 2022

Senior Platform Engineer

- Architected and implemented a fault-tolerant performance backup system that scaled to over 500,000+ customer virtual machines.
- Led design and development of a block storage product, which led to 150% increase in revenue.
- Improved platform reliability by reducing PHP error rates by 85%.
- Architected, designed and implemented CEPH backed storage as a disk storage option for VM's.
- Modernized mission-critical systems to be distributed across 12,000+ VM host macro service that handled all customer virtual machine automation. Provisioning, Configuration, and Cleaning up.
- Helped maintain existing production clusters and participated in an on-call rotation.
- Was the Sole Maintainer of multiple customer facing vultr products related to CEPH.
- Handled unusual technical issues, acted as a final level of escalation.
- Coordinated/Participated in Sprint Planning and had weekly 1 on 1's to remove impediments.
- Mentored junior developers, conducted code review to ensure compliance with corporate standards

Platform Engineer

- Built a process manager queue system that powers all PHP asynchronous scripts at vultr.
- Architected and implemented a migration tool to sunset 15 old CEPH clusters in 16 different Datacenters transferring petabytes of data from 1 CEPH cluster to a new CEPH cluster.
- Wrote and maintained an open source PHP client <https://github.com/vultr/vultr-php>
- Created CI/CD pipelines for rpm/apt builds, automated tests, and deployment cycles.
- Implemented a rollback feature for FRR routing configs which decreased datacenter outage rates by 40% using Python and vtysh to validate BGP sessions.
- Architected and implemented Crypto Currency payment options into Vultr's Billing System.

Software Engineer

- Built a IP Subnet scanner that used a collection of SORBS using Laravel(PHP) and VueJS.
- Built a Sitemap generator that generated an xml with thousands of URLs.
- Implemented a single pane of glass view for monitoring 27 different datacenters, reducing false positive alerts. Built using Icinga, VueJS, Laravel(PHP), and NodeJS.
- Designed, architected, and implemented a user permission system for internal facing dashboards using bitwise operators in PHP.
- Architected, designed, and implemented a speedtest/pinghost. It was deployed to over 27 Datacenters using CI/CD pipelines.

Zodiac Aerospace • Aug 2018 - Dec 2018

Support Developer

- Efficiently migrated terabytes of data from over 50 computers throughout the office into dropbox using Java to autodetect, remove, and upload for the client.
- Facilitated employee support requests fixing any sort of computer problem they may have had.

Liveshopbuy Inc • June 2018 - Aug 2018

Software Developer Intern

- Wrote a magento seller coupon module in PHP.
- Wrote a GDPR Pop-up Javascript Plugin.

EDUCATION

Associate of Science: Computer Science

Brookdale Community College

Lincroft, New Jersey • 2018

REFERENCES



Eric Van Trease

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Wasabi Technologies

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