JAY **OVALLE**

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PROFESSIONAL EXPERIENCE

JPMorganChase | Infrastructure Platforms | Lead Software Engineer   Feb 2024 - Present
- Designed the next generation container platform to support 1,000+ developers and 10,000+ workloads on baremetal, API-first, and declarative infrastructure to reduce total cost of ownership by at least 30%.
- Spearheaded a firmwide shift to eBPF-based networking and security (Cilium), partnering directly with Isovalent to architect a novel CNI-chaining pattern.
- Mitigated 'noisy-neighbor' issues by co-authoring an eBPF rate-limiter, token-bucket algorithm attached via XDP, improving cluster stability and resource fairness; design drew on ideas later formalized in Cilium's Bandwidth Manager.

JPMorganChase | Cloud Services | Infrastructure Developer   Feb 2021 - Feb 2024
- Developed key network features, using Ansible, Python, and Calico, enabling 10+ business units to securely and compliantly traverse network perimeters.
- Collaborated across IT functions (security, compliance, networking) to deliver and continuously mature networking (egress/ingress gateway, zero trust, PCI compliance, high throughput) capabilities, enabling both customer-facing and internal apps to run on Kubernetes securely and at scale.
- Served as a "Bar Raiser" for technical talent acquisition, refining interview loops to align with modern engineering competencies, producing 6 new hires.

JPMorganChase | Cloud Services | Infrastructure Engineer   Jun 2017 - Feb 2021
- Led first hybrid cloud pilot, using GKE and Anthos, resulting in the integration of a state-of-the-art on-prem server rack manageable from Google Cloud Console as a proof-of-concept.
- Worked with Google to evaluate GKE On-Prem (Anthos), by solving air-gapped installation obstacles, reporting 8 bugs to Google Engineering that fed the Anthos launch roadmap.
- Lead SRE towards DC/OS-based PaaS, by codifying vendor runbooks and integrating OMD + Checkmk with SMART/IPMI health probes, reducing hardware incident MTTR by 55%.

JPMorganChase | Global Technology Infrastructure | Linux System Administrator   May 2015 - Jun 2017
- Spearheaded infrastructure automation, through scripting PSI/VSI build configurations, slashing provisioning turnaround by 66%.
- Developed a Perl automation framework for Sybase/Oracle RAC configuration that saved 1,000+ total man-hours over a decade of continuous production service.

JPMorganChase | Chase Wealth Management | Infrastructure Engineer   Jun 2013 - May 2015
- Unified telemetry, using OMD and custom Linux agents, consolidating 350+ servers into single-pane of glass
- Orchestrated alerting for the entire estate reducing the $190B platform's MTTD to seconds

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TECHNICAL SKILLS

Proficient: AWS (EKS/EC2), GCP (GKE), Anthos, Kubernetes, ArgoCD, Flux CD, Docker, Terraform, Calico, Cilium, eBPF, Ansible, BGP, WireGuard, Python, Go, JavaScript, S3/MinIO, Tailscale, HAProxy, Traefik, Proxmox, vSphere, Homelab Architecture & Self-hosting, Linux System Administration, Technical Communication & Stakeholder Management, System Design & Architecture, Mentorship & Technical Leadership, Adaptability & Continuous Learning

Functional: OpenTofu, Terragrunt, Pulumi, Istio, Linkerd, Java, TypeScript, WebAssembly, Ollama, Trivy, Dagger, OPA, OpenTelemetry, CockroachDB, Tetragon, Kubecost, Harbor, Next.js, Rust

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EDUCATION & ACCOLADES

Expert Engineer (E2), E2 Expo People's Choice Award, JPMorganChase   2022
Bachelor of Science, in Information Technology, *Rochester Institute of Technology*   2014