

Pavan Patharde

Principal Engineer | Bangalore, India

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SUMMARY

Principal Engineer with 15 years of experience architecting and delivering cloud-native platforms, microservices, and distributed systems for on-premises and hybrid environments. Deep expertise in Kubernetes, operators, observability, and scalable control-plane design. Proven track record leading cross-functional teams, raising the technical bar through mentoring and design reviews, and driving innovations from concept to production, including multiple patent filings.

CORE SKILLS

- **Languages:** Go, Python
- **Cloud-Native & Orchestration:** Kubernetes, Docker, Operator SDK, Helm, Domain-Driven Design, Microservices, REST APIs
- **Observability:** OpenTelemetry, OpenMetrics, Jaeger, Prometheus, Grafana, AlertManager, Fluentd / Fluent Bit
- **Data & Messaging:** MongoDB, PostgreSQL, MySQL, Elasticsearch, Redis, RabbitMQ
- **Cloud & Architecture:** AWS, Azure, VMware / vSphere, OVA packaging, CI/CD (Jenkins)
- **Leadership:** Technical roadmap ownership, cross-functional design leadership, mentoring, patent & innovation facilitation

EXPERIENCE

Principal Software Engineer

March 2025 - Present

NetApp India Pvt Ltd · Bangalore, India

- Architected and delivered the platform architecture for NetApp Console Local (NCL), including AI-assisted sizing at VM and container level, cutting solution-scale effort from roughly 2 months to 2-3 weeks.
- Led architecture for the next-generation NetApp Console Agent, including the technology roadmap with product management from concept through launch, high-availability and scale constructs for the control plane, and cross-functional delivery of packaging constructs (including OVA).
- Mentored engineers on system design and coding standards; led patent mining and filings for the team.

Senior Engineer

September 2019 - February 2025

NetApp India Pvt Ltd · Bangalore, India

- Led platform design, implementation, and deployment of the next-generation OTV VASA Provider (OVA-bundled), scaling OTV to an industry-first **150k+ vVols**.
- Led design for VASA Specification 5, enabling VMware **vVol+** certification.
- Architected NVMe and Fibre Channel protocol support within OTV.
- Led platform design and implementation for Astra VMware plugin and ADS VASA provider; designed and delivered the ONTAP Tools Manager backend.
- Designed a Kubernetes-based HCI management node and a Docker Swarm to Kubernetes migration path that cut the release cycle from **three months to a biweekly cadence**.
- Designed end-to-end observability for OTV, including customer adoption metrics ingestion into AutoSupport (ASUP).
- Built polyglot microservices (Go, Spring Boot, Python/Flask) and Kubernetes operators via Operator SDK for component deployment.
- Contributed open-source fixes to Bitnami MongoDB Helm charts; mentored engineers and filed patent applications for platform innovations.

Member of Technical Staff

May 2017 - September 2019

VMware India Pvt Ltd · Bangalore, India

- Designed and developed microservice-based internal tools, services, and applications that saved approximately **\$18M per year**.
- Built Hardware-as-a-Service capabilities to manage enterprise assets (servers, switches, storage).
- Operated and extended an internal Kubernetes-based container cloud; delivered features for the internal CI/CD and on-demand apps platform (Jenkins, SonarQube).

Senior Software Engineer

February 2015 - May 2017

Lava International · Bangalore, India

- Led backend engineering for tools, integrations, and custom product requirements that generated nearly **\$1M per year** in revenue.
- Built recommendation and messaging systems for Android launcher and theme-store apps; developed REST APIs for mobile clients.
- Delivered user-behavior analysis and persona scoring pipelines on AWS (Redshift, data pipelines).

Application Engineer

October 2013 - February 2015

Intacct Corporation · Bangalore, India

- Designed and built sales-organization applications and third-party integrations that improved lead-to-customer conversion for a SaaS financial platform.
- Delivered features on a proprietary PHP stack with MySQL and responsive web UIs.

Systems Engineer

August 2011 - September 2013

Tata Consultancy Services · Bangalore, India

- Designed a customer service management application that improved customer satisfaction by **20%**.
- Built and deployed the application on Azure using CodeIgniter, MySQL, and REST services.

EDUCATION

- **BE, Computer Science and Engineering**, Visvesvaraya Technological University, Bagalkot, India (2011) · GPA 9.03
- **PG Program, Management and Leadership**, Institute of Management Technology, Ghaziabad, India (2019)

CERTIFICATIONS

- CKAD: Certified Kubernetes Application Developer
- PCA: Prometheus Certified Associate

AWARDS

- **Spot Award, NetApp**: Outstanding contributions delivering the microservices-based VASA Provider and ramping the team on Kubernetes.
- **Spot Award, VMware**: Outstanding contributions delivering applications on time with quality.

ADDITIONAL

- Multiple patent filings for platform and product innovations at NetApp.
- Volunteer, Vidya Poshak: fundraising and pro-bono technical support.