

Ravi Ramakrishnan Athmanathan

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Profile

Seasoned Principal Production Engineer with over 18 years of experience driving the reliability and performance of mission-critical applications, including nearly a decade at Yahoo architecting and managing their Ad Serving and Supply-Side AdTech Services on AWS. Expertise in automating infrastructure management for both on-prem and cloud environments. Certified Kubernetes Administrator (CKA) and Terraform Associate, skilled in building scalable, resilient, and highly available systems using infrastructure as code.

A collaborative leader known for fostering a culture of technical excellence. Seeking to leverage my expertise to lead and mentor high-performing engineering teams in dynamic, cloud-native environments.

Core Competencies

Site Reliability Engineering | GitOps | Containerization & Orchestration | Infrastructure as Code | AWS Cloud Services (ECS, EKS) | CI/CD Pipeline Implementation | Technical Leadership | Cross-Functional Collaboration | Incident Management & Resolution | Stakeholder Management | Operational Efficiency & Automation | Process Improvement | Root Cause Analysis | Monitoring & Alerting | SOX | PCI | TLS Certificate Management | X.509 Certificate Management | Secrets Management

System Expertise & Technical Tools

Cloud & Containerization: AWS (EC2, S3, ECS, EKS, VPC, CloudWatch), Kubernetes, Docker, OpenStack

Infrastructure & Automation: Terraform, AWS CloudFormation, Ansible, Automated Infrastructure Management

Programming & Scripting: Python, Java, Shell Scripting, JavaScript

DevOps & Monitoring Tools: New Relic, Splunk, Prometheus, Git, Jira, Screwdriver, GitHub Actions

Web Technologies & Databases: Apache, Nginx, Apache Traffic Server (ATS), NodeJS, ReactJS, CSS, TCP/IP, Load Balancing, CDN, Oracle, MySQL, MongoDB

Experience

Apr 2025 – present
1 month
Santa Clara, CA

Palo Alto Networks

Senior Staff Site Reliability Engineer

- Contributed to the success of Site Reliability Engineering (SRE) and DevOps practices within the App Services team.
- Focused on ensuring applications are production-ready, scalable, and reliable by supporting automation, architecture, and observability efforts.
- Actively involved in operating and maintaining secure cloud infrastructure, primarily on GCP.
- Spearheaded team efforts in leveraging AI-powered tools by utilizing Sourcegraph Cody's Agentic workflow and integrating Model Context Protocol (MCP) servers to automate repetitive Infrastructure as Code (IaC) configuration changes through an agentic workflow connecting Sourcegraph Cody, Jira, and GitLab.
- Engaged in enhancing and maintaining CI/CD pipelines, incorporating GitOps principles to automate service deployment.

		<ul style="list-style-type: none"> • Contributed to security-focused initiatives, including projects such as implementing Workload Identity Federation between GitLab and GCP. • Collaborated with developers and other technical teams to support and enhance application services. • Participated in monitoring, troubleshooting, and resolving issues within complex distributed systems.
May 2024 – Sep 2024 5 months Mountain View, CA	Yahoo Principal Production Engineer	<ul style="list-style-type: none"> • Directed the design, deployment, and management of large-scale production environments for Yahoo's Ad Gateway Services on EKS Clusters, ensuring system stability and high scalability to support 2 billion transactions per day. • Spearheaded infrastructure automation initiatives, resulting in a 50% reduction in operational overhead and enhanced team efficiency. • Collaborated with Engineering and Product teams to implement best practices, improving system reliability by 5% and performance by 10%. • Mentored and guided engineering teams, aligning individual efforts with overarching company objectives and fostering a culture of technical excellence.
Apr 2019 – Apr 2024 5 years 1 month Mountain View, CA	Yahoo Senior Production Engineer	<ul style="list-style-type: none"> • Deployed and managed containerized applications on Amazon Web Services (AWS) for Yahoo's Supply-Side AdTech Services, emphasizing scalability and high availability to support millions of transactions per day. • Led critical migration and automation projects leveraging Kubernetes and Terraform • Conducted proactive capacity planning and performance tuning, ensuring 99.99% high availability and minimizing downtime to less than 5 minutes per month. • Expertly resolved complex system-wide issues, providing mentorship and technical guidance to junior engineers in implementing best practices in production engineering.
Nov 2016 – Mar 2019 2 years 5 months Mountain View, CA	Yahoo Production Engineer II	<ul style="list-style-type: none"> • Managed capacity planning and performance tuning for large-scale, high-throughput systems, optimizing resource utilization and system performance. • Played a pivotal role in the automation of the CI/CD pipeline, reducing manual interventions by 50% and accelerating software delivery cycles. • Led troubleshooting and root cause analysis for critical incidents, particularly within Linux environments and cloud infrastructure, ensuring rapid resolution and minimizing service impact.
Dec 2015 – Oct 2016 11 months Mountain View, CA	Yahoo Lead Operations Engineer	<ul style="list-style-type: none"> • Coordinated and streamlined the identification and resolution of high-priority incidents, achieving a 25% reduction in service disruptions and maintaining critical system robustness. • Proactively utilized monitoring tools to identify and address potential system issues, reducing the occurrence of critical incidents. • Collaborated effectively with cross-functional engineering and operations teams to optimize the performance and reliability of web applications and backend services.
Nov 2014 – Nov 2015 1 year 1 month Palo Alto, CA	TIBCO Software Inc Senior Support Engineer	Served as the primary point of contact for customers of TIBCO ActiveMatrix, expertly troubleshooting integration issues and ensuring their success.

- Sep 2010 – Nov 2014
4 years 3 months
Sunnyvale, CA

Infosys Limited
Technology Lead | Technology Analyst | Senior Systems Engineer
For Apple Inc., maintained high availability and optimized performance of production applications through root cause analysis, change management, automation, and expert technical support.
- June 2007 – Sep 2010
3 years 4 months
Chennai, India

Protechsoft Systems Limited
Software Engineer
Engineered responsive Single Page Applications using JavaScript, HTML, and CSS, enhancing user workflows and proactively improving UI/UX

Education

- June 2002 – May 2007
- University of Madras**, M.Sc. in Computer Science & Technology – Chennai, India

Certifications

- Dec 2024
- [Certified Kubernetes Administrator \(CKA\)](#)
- Aug 2024
- [HashiCorp Certified: Terraform Associate \(003\)](#)