



Vivekanand Dubey

Engineering Manager, Hands-on Technical Leadership

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- 14+ years of experience, including 8 years in leadership, across technical and managerial roles.
- **Proven Leadership** in steering cross-functional teams from concept to delivery, overcoming performance bottlenecks.
- **Versatile Technical Exposure** to system software, network management and Cybersecurity; familiar with Kubernetes, cloud platforms, and Microservices paradigms.
- **Team Builder**, cultivated and rejuvenated high-performance teams amidst challenging scenarios.
- **Agile Practitioner**, known for adaptability, quick learning, and a distinct flair for troubleshooting.

SKILLS

Technical

- **Languages:** C++, C, Java, Perl, Ruby
- **Tools:** Jenkins, Vagrant, VMWare, Docker, Chef, Git, SVN
- **Cloud:** (managed team) AWS, Kubernetes, Microservices
- **Testing:** BDD, Cucumber
- **Databases:** SQL, PostgreSQL, SQL Server, Performance tuning
- **Networking & OS:** Linux, Windows, eBPF, NMS, IPC

Leadership

- **Roles:** Engineering Manager, Technical Lead, Mentor, Onsite Coordinator, Hiring Manager, Scrum Master
- **Competencies:** Team Building, Decision Making, Problem Solving, Strategic Thinking, Adaptability, Conflict Resolution.
- **Methodologies:** Agile, Waterfall

CAREER HIGHLIGHTS

- **Strategic Leadership:** Devised real-time change detection on Linux using **eBPF**, cutting maintenance efforts by **90%**, and kernel panics by **95%**.
- **Innovation and Cost-Saving:** Engineered a transformative provisioning solution for **~60K** network devices, reducing **costs by 60%** and deployment **time by 30%**.
- **Team Building:** Built high-performance teams from the ground up, achieving a remarkable **7% attrition** rate, significantly surpassing the industry's **>20%** average.
- **Operational Efficiency:** Steered pivotal adoption of Agile, ensuring optimum velocity and predictable deliveries.
- **Global Impact:** Instrumental in the design and development of cross-platform change monitoring and compliance solutions utilized by **over 7000 companies** worldwide, including **half of the Fortune 500** firms.
- **Technical Proficiency:** Contributed to the implementation of patented technologies at Hughes, enhancing broadband performance for over **1.4 million subscribers**.

EXPERIENCE

Incedo, Tripwire Cybersecurity Solutions

Aug 2018 - Present

Technical Manager

- Spearheading enterprise-scale change detection and compliance solutions, known for speed, resilience, security, and scalability, overseeing two cross-functional teams totaling **15 members**.
- Pioneered a new way of real-time change detection on Linux using **eBPF**, with **Compile Once Run Everywhere** capability.
 - The solution eliminated efforts required to support multiple vendors and kernel versions by 90%.
 - With improved stability and extensibility, it reduced the kernel panics by 95%.
- Instrumental in developing a versatile database monitoring solution for change detection, ensuring **configuration-driven adaptability** for PostgreSQL, SQL Server, and Oracle, achieving a **15x boost** in Oracle monitoring through optimized configurations.
- Crafted solutions to monitor Active Directory for change detection and audit log scrutiny.
- Drove hiring efforts and mentored team members, enhancing team cohesion and productivity; conducted performance appraisals.
- Successfully implemented Agile practices, resulting in 20% reduction in project timelines and ensuring more predictable deliveries.

- Coordinated closely with product management and customer support to ensure continuous delivery with quality.

Hughes Systique

Oct 2011 - Aug 2018

Principal Engineer

- Championed a **6-member** team, engaged in full-stack design and development of network management system and platform applications tailored for cutting-edge network appliances, focused on high availability and secure, low-latency communications.
- Led the creation of Zero Touch Provisioning, a breakthrough solution that eliminated the need for on-site installations.
 - Optimized deployment for ~60K network devices.
 - Achieved a **60% reduction** in deployment costs and a **30% acceleration** in deployment time.
- Steered the development of innovative platform applications for network appliance that harnessed traffic classification, data compression, and multi-path WAN strategies to guarantee high availability and elevate Quality of Service (QoS).
- Drove the development and integration of core appliance services, enabling dynamic configuration through NMS and SNMP, and crafted an intuitive Web UI for real-time device monitoring and configuration.
- Devised sophisticated workflows in the NMS for seamless deployment and configuration involving CPEs from major players like Cisco, Fortinet, and Hughes.
- Instrumental in automation, stress testing, and optimization in tandem with leading comprehensive system integration and verification test efforts
- Adeptly managed troubleshooting, production cutover, and customer tickets to ensure optimal service delivery.

Persistent Systems, Motorola Design Suite

Jul 2008 - Sep 2010

Software Engineer

- Made significant contributions to Motorola's WLAN design suite enabling intricate WLAN planning for buildings and cityscapes. The suite consisted of desktop applications, libraries, device drivers, and management servers.
- Designed and developed cross-platform dynamic library that served as fast, modular, and extendible data logger. Built using C++, JNI, Java, and SWIG, this library provided crucial logging capabilities for WLAN measurement data.
- Played key role in 'Application Specific Planning,' a specialized feature to expedite network planning based on common use-cases.
- Contributed to UI components using MFC enhancing usability and functionality of desktop applications.
- Worked on porting Windows device drivers to support latest Windows, overcoming challenges with minimal guidance.

EDUCATION

National Institute of Technology, Raipur

B. Tech. Information Technology

ADDITIONAL INFORMATION

- Recognized with individual and team awards for outstanding performance.
- Organized company-wide technical, cultural and sports events; founding member of long-standing groups.
- Volunteered for the Red Cross; interests include technology, photography, astronomy, movies, chess, and traveling.