# **Mastinder Singh**

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## **Summary**

Lead Software Engineer and Splunk Administrator with deep expertise in **cloud infrastructure, DevOps, Linux systems, and observability engineering.** Proven ability to design, develop, and optimize **secure, scalable, and high-performance platforms**. Expertise in **Python, AWS, Kubernetes, Terraform, CI/CD pipelines**, and **SRE best practices**. Adept at **troubleshooting, monitoring, and incident resolution**, ensuring **operational stability and reliability** in **financial services IT environments**.

## **Education**

* **ISB, School of Business** – Product Management
* **Pune University, Wadia College** – Master’s in Computer Science

## **Work Experience**

### **Wells Fargo – Integration Engineer (Python) *(Oct 2024 – Present)***

* **Developed and maintained secure, high-quality production code** in Python, improving **system reliability and performance**.
* **Provisioned and optimized cloud infrastructure** using AWS, Kubernetes (EKS), Terraform, and Docker.
* **Built and automated CI/CD pipelines** using GitHub Actions, Terraform, and .
* **Enhanced cloud security** with IAM roles, encryption (AWS KMS), and VPC Service Controls.
* **Automated database integration (MSSQL, PostgreSQL) using Python**, reducing manual effort and improving data accuracy.
* Designed and implemented an **automated KPI tracking pipeline** integrating **PostgreSQL**, **SQL Server**, and **JIRA** with dynamic query handling using Python.
* Developed reusable data connectors and scheduling logic to process KPIs per service, configuration, and application across **multi-source environments**.
* Used **parameterized SQL templates** and replaced date values dynamically in real time ({start\_date}, {end\_date}), eliminating the need for manual query updates.
* Created a **modular ETL framework** with PostgreSQL as the central tracking hub (kpi\_schema.kpi\_measures, kpi\_tracking).
* Removed dependency on {prev\_month\_start} placeholder by optimizing SQL logic using **window functions and in-query date math**.
* Built and validated the workflow via a **mock test pipeline in Azure DevOps** (CD/CD), simulating live runs and verifying data consistency.
* Maintained clean code structure, exception handling, and retry logic for **JIRA API integration** with token-based authentication.
* Wrote end-user and admin documentation for query onboarding, KPI registration, and script usage.

### **Wells Fargo – Vice President, Lead Senior Software Engineer *(Aug 2020 – Mar 2024)***

* **Led cloud transformation projects** across AWS, Azure, and GCP, migrating banking applications to cloud environments.
* **Developed SRE-driven monitoring and incident resolution workflows**, reducing MTTR and improving system resilience.
* **Managed CI/CD pipelines ensuring compliance with financial security regulations** (GDPR, PCI-DSS).
* **Optimized Elasticsearch clusters**, improving data retrieval speed and system performance.
* **Implemented automation for cloud-native deployments**, reducing manual interventions and increasing operational efficiency.
* **Led Splunk clustering and upgrade strategies**, enhancing system resilience and monitoring stability across production workloads.
* **Implemented OpenTelemetry for distributed tracing**, integrated with Grafana and Loki dashboards to enhance visibility.
* **Delivered internal training on observability tooling** including Datadog and Splunk to engineering and SRE teams.

### **JPMorgan Chase – Associate Vice President (AVP) *(Sep 2016 – Aug 2020)***

* **Architected cloud-native infrastructure** on AWS, Azure, and GCP, ensuring high availability and security compliance.
* **Developed Python-driven automation solutions** for transaction monitoring, improving financial data integrity.
* **Optimized CI/CD pipelines** with SonarQube integration, reducing technical debt and improving code quality.
* **Led observability enhancements** using Splunk, Dynatrace, and DataDog, **reducing logging costs by 20%**.
* **Designed API integrations** for core banking systems, ensuring secure and efficient data exchange.

### **HCL Technologies – Associate Consultant *(Jul 2015 – Sep 2016)***

* Managed **Atlassian tools (JIRA, Confluence, Bamboo)** to support DevOps workflows.
* **Led migration from SVN to Git**, ensuring seamless transitions with no data loss.
* **Built CI/CD pipelines** to streamline software development and deployments.

### **CGI Inc – Lead Analyst *(May 2012 – Jun 2015)***

* Managed hedge fund **application environments** with WebLogic, JIRA, and Bamboo.
* Implemented **CI/CD processes for financial software**, improving release cycle efficiency.

### **Wipro Technologies – Analyst *(Sep 2010 – May 2012)***

* **Developed and deployed automated build and release solutions**, reducing deployment time by **30%**.
* Specialized in **JBoss clustering and high-availability deployments**.

### **AXA Tech – Analyst (Bristol, UK) *(Nov 2009 – Aug 2010)***

* **Managed production environments for financial applications**, ensuring 99.9% system uptime.

### **Quickstart Global – Baroda, India *(Feb 2009 – Nov 2009)***

* Managed web hosting environments, ensuring high availability and optimal performance.

### **Kirusa – CSE (Bengaluru, India) *(Jan 2007 – Feb 2009)***

* **Implemented JBoss clustering** for voice SMS services across India.
* Provided **technical support and troubleshooting** to ensure high service availability.

## **Skills & Core Competencies**

✔ **Cloud Platforms:** AWS, Azure, GCP, Kubernetes, Terraform  
 ✔ **DevOps & Automation:** CI/CD, Jenkins, GitHub Actions, Ansible, Python  
 ✔ **Monitoring & Observability:** Splunk (Stability, Resilience, Clustering, Upgrades), Open Telemetry, Grafana, Datadog, Prometheus.

✔ **Security & Compliance:** IAM, Encryption, GDPR, PCI-DSS, Secure Coding  
 ✔ **Software Engineering & Agile:** CI/CD, Application Resiliency, Performance Optimization

✔ **Leadership & Enablement**: 4+ years in engineering leadership roles; delivered technical training and mentorship for observability and monitoring tools

## **Certifications**

✅ **Microsoft Certified: Azure** *(Credential ID: b85ac177-1dab-40a7-bfc1-cf62f0ae7492)*  
 ✅ **Workato Automation Pro I & II** *(Credential IDs:* [*6aa450cc-1374-402e-a1d4-92f85bae8787*](https://credentials.workato.com/6aa450cc-1374-402e-a1d4-92f85bae8787)*, c97ff70b-1818-466e-9058-e85dfa8db8ec)*

## **Key Achievements**

🏆 **Led cloud transformation projects at Wells Fargo**, improving system reliability and reducing downtime.  
 🏆 **Automated CI/CD pipelines**, enhancing deployment security and efficiency.  
 🏆 **Spearheaded SVN to Git migrations**, ensuring seamless transitions.  
 🏆 **Optimized Splunk monitoring**, reducing costs while improving observability.