Chiranjeev Singh

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SKILL SUMMARY

DevOps professional with 3 years of experience in CI/CD pipeline automation, cloud deployment, data analytics, and system optimization. Adept at building scalable DevOps solutions, automating workflows, and leveraging data-driven insights to enhance operational efficiency. Strong expertise in monitoring production environments, troubleshooting applications, and implementing predictive analytics to drive strategic business decisions.

EDUCATION

Master's in Business Data Analytics, **University of Windsor, Canada**   *Sept 2023 - Dec 2024*
B.E.- Electrical Engineering, **Thapar University, India**   *July 2016 - July 2020*

TECHNICAL SKILLS

- **DevOps & Cloud Tools:** Jenkins, GitHub Actions, Bitbucket, ServiceNow, Splunk, ECP Cloud, Docker, Kubernetes
- **Programming:** Java, Python, R, SQL, Bash
- **CI/CD & Automation**: Maven, Gradle, YAML Workflows
- **Business Intelligence:** Power BI, Tableau, Excel, R(ggplot2)
- **Databases:** MySQL, Microsoft SQL Server Management Studio, MySQL Workbench
- **Tools/Methodologies:** Jira, Agile & Waterfall Model, Caramel, Postman, Splunk, Scrum

ACADEMIC PROJECTS

Capstone Project: Predictive Analysis for Health Monitoring   *Sept 2024 – Dec 2024*

- **Objective:** Utilized machine learning techniques, data preprocessing, and feature engineering to deliver actionable health insights. Built a predictive model leveraging machine learning for health risk forecasting based on wearable device data.
- **Methodology:** Used Supervised Learning Techniques to classify health risk levels. Random Forest for forecasting and weighted scoring algorithms for fall risk assessment
- **Approach, Data Processing & Feature Engineering:** Developed a machine learning model to predict walking asymmetry and steadiness based on wearable sensor data. Collected and preprocessed data from wearable devices & mobile sensors. Engineered key health indicators: double support time, walking speed, step length, and asymmetry metrics. Applied PCA (Principal Component Analysis) to reduce dimensionality and enhance model efficiency.
- **Outcome & Business Impact:** Achieved 85% model accuracy in predicting potential health risks. Built an automated real-time monitoring system with alerts for early risk detection. Enabled personalized health recommendations using a rule-based decision system.

Power BI Project: Ecommerce Dashboard for a Superstore   *Sept 2024*

- **Objective:** Developed an interactive e-commerce dashboard to visualize and analyse key business metrics. Implemented DAX calculations to derive insights such as sales trends, customer behaviour, and performance metrics.

PROFESSIONAL EXPERIENCE

Technology Analyst – Infosys Ltd., Chandigarh, India   *Jan 2023 – Aug 2023*

- **CI/CD Pipeline Development:** Designed and optimized CI/CD pipelines for diverse application architectures (Gradle, POM, .NET, Node.js), accelerating deployment timelines by 30% and reducing build failures by 25%.
- **Workflow Automation:** Implemented YAML workflows to automate scanning tools (Checkmarx, SonarQube, CastHL, CastAIP), improving code quality and reducing manual intervention by 40%.
- **Data-Driven Insights:** Developed Power BI dashboards for real-time DevOps pipeline analytics, cutting report generation time by 50%.
- **Database Management:** Monitored production databases across development, staging, and production environments using Microsoft SQL Server Management Studio, achieving 99.9% uptime and ensuring seamless deployment cycles.
- **Documentation & Knowledge Sharing:** Created comprehensive documentation and conducted knowledge transfer sessions to improve operational efficiency and team collaboration.

Senior Systems Engineer – Infosys Ltd., Chandigarh, India   *July 2022 – Dec 2022*
- **Application Deployment:** Deployed and maintained enterprise applications in test, UAT, and production environments, ensuring a 95% success rate in bug mitigation.
- **Root Cause Analysis:** Led incident investigations and deployed automated rollback mechanisms, reducing downtime by 40%.

Systems Engineer – Infosys Ltd., Chandigarh, India   *Nov 2020 - June 2022*
- **Repository Migration:** Migrated Bitbucket repositories to GitHub, improving repository reliability and enhancing CI/CD integration.
- **Dependency Management:** Resolved dependency failures, quarantine issues, and compilation errors, achieving a 98% build success rate.
- **Build Monitoring:** Oversaw Jenkins build processes, proactively identifying and resolving build failures, achieving a 98% build success rate and reducing downtime in CI/CD pipelines.