Raj Singh
Site Reliability Engineer

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EDUCATION

Bachelors in Computer Engineering, *Iowa State University* — 2018 — 2022
General Education, *Wayzata High School* — 2014 — 2018

SKILLS

Computer Infrastructure	Windows, Linux, Azure, Docker, Kubernetes, ESXI VMware, F5, Cisco/Meraki, Palo Alto
Programing Languages	Python, HTML, CSS, Javascript, Java, C, SQL, MongoDB, GO
Coursework	Object Oriented Programming, Data Structures, Computer Organization and Assembly Level Programming, Digital Logic, Networking, Circuit Design/Analysis, Digital Systems Fundamentals
Achievements	Eagle Scout, Top 10 national finalist at BPA for Computer Networking
Certification	CompTIA A+ Certification, JNCIA DevOps/Service Provider (In Progress)

TECHNICAL EXPERIENCE

DevOps Engineer   Oct 2022 — Present
Casey's General Stores, Inc   *Ankeny, IA*

- Designed and deployed microservice based monitoring system in production k8s. Provided network monitoring for 2500+ store locations. Reduced MTTR of network issues by 40%.

- Constructed an application composed of Windows agents to do local network-connected asset discovery to create reports and collect telemetry.

- Transformed company-wide asset management and discovery using this system, eliminating manual error-prone bookkeeping. Discovered roughly 22,000 previously unknown network devices, allowing potential tax write offs up to $2,200,000.

- Deployed OpenShift k8s environment to facilitate a smooth transition from legacy software deployment methods. Designed and implemented infrastructure. Pioneered training team members on CI/CD and infrastructure as code.

- Led successful on-boarding of 5+ applications to a production-level OpenShift cluster, by providing technical guidance.

- Implemented an agile approach to the deployment of an on premises OpenShift Kubernetes environment, collaborating with team members to iteratively refine the process and continuously improve efficiency and quality.

Network Engineer   MAY 2021 — Oct 2022
Casey's General Stores, Inc   *Ankeny, IA*

- Leveraged APIs to automate certain networking-based tasks, improving deployment efficiency and tightly integrating with company resources. This involved utilizing containerization and Azure cloud development.

- Identified store network infrastructure vulnerabilities by monitoring Palo Alto and Cisco Meraki systems, resulting in improved network stability and reduced store downtime.

- Conducted resource utilization and capacity planning. This prevented downtime and ensured a seamless customer experience.

- Provided level 2 and level 3 technical support to resolve issues promptly and effectively. This involved troubleshooting and debugging to restore system functionality.

- Managed the commissioning and decommissioning of network infrastructure. This involved working with cross-functional teams to coordinate equipment licensing, installations, upgrades, and removals.

IT Specialist   MAY 2017 — Dec 2022
Singh360   *Medina, MN*

- Led small business IT operations and management, including the installation of networking infrastructure, hardware/software deployment, and software solutions management.

- Managed the full IT life-cycle for all hardware assets, ensuring optimal performance and longevity.

- Conducted comprehensive vulnerability assessments and penetration tests to secure the perimeter network, systems, and applications.