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# Raj Singh

## Site Reliability Engineer

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### EDUCATION

**Bachelors in Computer Engineering**, Iowa State University  
**General Education**, Wayzata High School

2018 — 2022  
2014 — 2018

### SKILLS

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|--------------------------------|---|
| <b>Computer Infrastructure</b> | Ansible, Puppet, Terraform, RedHat Linux, Azure, Kubernetes, VMware, F5, Cisco, Palo Alto, Atlassian  |
| <b>Programing Languages</b>    | Python, HTML, CSS, Javascript, Java, C, SQL, MongoDB, GO  |
| <b>Coursework</b>              | Object Oriented Programming, Data Structures, Computer Organization and Assembly Level Programing, Digital Logic, Networking, Circuit Design/Analysis, Digital Systems Fundamentals |
| <b>Achievements</b>            | Eagle Scout, Top 10 national finalist at BPA for Computer Networking  |
| <b>Certification</b>           | CompTIA A+ Certification, DevOps Engineer Expert (In Progress)  |

### TECHNICAL EXPERIENCE

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| <b>DevOps Engineer</b><br>Casey's General Stores, Inc | <b>Oct 2022 — Present</b><br>Ankeny, IA |
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- 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.

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| <b>Network Engineer Intern</b><br>Casey's General Stores, Inc | <b>MAY 2021 — Oct 2022</b><br>Ankeny, IA |
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- 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.

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| <b>IT Specialist</b><br>Singh360 | <b>MAY 2017 — Dec 2022</b><br>Medina, MN |
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- 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.