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DevOps Intern Job Readiness Report (2026 Graduate, 0 Experience)

🔍 Section 1: Golden Intersection of Requirements

Our review of recent DevOps/SRE intern JDs and career guides shows the following common requirements:

- **Linux & Scripting:** Strong Linux fundamentals (file system, shell commands, permissions) and basic scripting (Bash/Python) are essential [1] [2]. Employers repeatedly require hands-on Linux experience (e.g. using `chmod` / `chown`, navigating directories, editing configs) and writing simple shell scripts [2] [3].
- **CI/CD & Version Control:** Proficiency with CI/CD pipelines and Git is mandatory [4] [5]. Most JDs list tools like Jenkins or GitHub/GitLab CI for automated builds and deployments [4] [6]. Experience with Git (branching, merging) is assumed.
- **Containerization:** Docker (container packaging) is universally cited [7] [6]. Internships often involve deploying Dockerized apps, so knowing how to build/run containers is a must. Basic Kubernetes (pods, services) knowledge is commonly mentioned (often as a *plus* rather than a strict requirement) [8] [7].
- **Cloud (AWS) Services:** Familiarity with core cloud services is critical [9] [10]. In practice, this means understanding AWS basics – EC2 (instances), S3 (storage), IAM (identity), and VPC/networking – along with how to provision these via the console or CLI [9]. Many JDs explicitly list AWS or equivalent cloud exposure (sometimes Azure/GCP) [9] [10].
- **Infrastructure-as-Code:** Experience with IaC tools (Terraform, CloudFormation, or Ansible) is frequently required [9] [6]. Interns are often expected to write scripts that automate cloud infra setup. The intersection of multiple JDs shows **Terraform** and **Ansible** appear on most lists [9] [6].

In summary, DevOps intern roles consistently demand Linux fundamentals, one or more CI/CD tools (Jenkins/GitLab/GitHub Actions), Docker, cloud basics (especially AWS), and at least one IaC framework. (One guide similarly emphasizes Docker/Kubernetes, Terraform, Jenkins, and AWS as the core stack for DevOps internships [6] [9].)

- **Nice-to-Have Skills:** Beyond the must-haves, certain extras help a candidate stand out. Commonly cited *pluses* include **Kubernetes** orchestration (beyond basic Docker) [8], knowledge of **monitoring/observability tools** (e.g. Prometheus, Grafana, ELK, Datadog) [11], and proficiency in an additional programming language (for example, Python or Go for automation) [8]. Other bonus skills occasionally noted are familiarity with other cloud platforms (Azure/GCP) or security/DevSecOps basics (vulnerability scanning, IAM policies) [11] [8].
- **Hidden (Soft) Requirements:** Recruiters also look for mindset traits and soft skills. Nearly every JD stresses being **proactive, eager to learn, and collaborative** [11]. Demonstrating **curiosity** (self-driven side projects, experimenting with new tools) and a methodical **troubleshooting/problem-solving approach** is crucial [12]. Good **communication and teamwork** abilities (e.g. writing clear

documentation, coordinating with developers) are often assumed [11]. In short, a positive attitude and the ability to work well in a fast-paced team are expected alongside the technical skills.

Section 2: Master Resume Blueprint

Headline: *"2026 Computer Science Graduate – DevOps Engineer Intern (Linux • Docker • AWS • CI/CD)"* – a concise title that highlights the graduation year, target role, and core technologies.

Project Descriptions: Use action-focused bullets that hit the must-have keywords. For example:
- "Developed an end-to-end CI/CD pipeline using Jenkins and GitHub Actions to automatically build, test, and deploy a Dockerized web application on AWS EC2/S3 [4] [9].
- "Wrote Infrastructure-as-Code in Terraform (with AWS CloudFormation as needed) to provision VPC networks, EC2 instances, S3 buckets, and IAM roles, enabling repeatable environment setups [9] [6].
- "Containerized a microservice architecture using Docker and deployed to a Kubernetes cluster (minikube/EKS) on AWS; implemented monitoring and logging with Prometheus/Grafana for observability [7] [13].

Each project bullet should clearly mention Linux (e.g. Ubuntu servers), Docker, AWS services, CI/CD, or IaC – matching the section above.

Skills Section: Include a prioritized list of key technologies (grouped by category):
- Linux/Unix (bash), Shell Scripting
- Version Control & CI/CD: Git, GitHub/GitLab, Jenkins, GitHub Actions
- Containerization: Docker (and basic Kubernetes)
- Cloud Platforms: AWS (EC2, S3, IAM, VPC)
- Infrastructure as Code: Terraform, Ansible/CloudFormation
- Monitoring/Logging: Prometheus, Grafana, ELK Stack (knowledge of any is bonus)

List only the most relevant tools (10–12 items). Order them by importance: Linux first, then cloud, then containers, CI/CD, etc. For example: **Linux, Bash, AWS (EC2/S3/IAM/VPC), Docker, Git, Jenkins/GitHub Actions, Terraform, Ansible, Kubernetes (basic), Prometheus/Grafana.**

Section 3: Universal Pitch (Cold Message)

I am a 2026 Computer Science graduate passionate about DevOps and cloud infrastructure. I have hands-on experience building CI/CD pipelines and automating deployments using **Docker**, **Jenkins/GitHub Actions**, and AWS services, which has significantly reduced delivery time and improved system reliability. I'm excited to bring my Linux and automation skills to a fast-paced team, streamlining release cycles and ensuring smooth, scalable deployments.

(This concise 3-sentence pitch mentions 2026 grad status, the core stack (Linux/Docker/AWS/CI/CD), and a value statement about speeding up deployments and improving reliability.)

📚 Section 4: Final Revision Checklist

- **Linux:** Review core commands and concepts – file permissions (`chmod`, `chown`), file navigation (`ls`, `grep`, `awk`), process management (`ps`, `kill`, `top`), and basic networking tools

(`ifconfig`/`ip`, `ping`, `ssh`) [2] [3]. Practice common tasks (editing configs with `vim/nano`, monitoring logs with `tail`, etc.) and basic shell scripting (loops, conditions in Bash) [14].

- **Networking:** Understand fundamental protocols and utilities. Know how DNS, HTTP/HTTPS, and SSH work conceptually. Be able to use `ping` and `curl` to test connectivity and endpoints, `netstat`/`ss` to inspect connections, and `nslookup`/`dig` for DNS lookups [15]. Also recall common port numbers (e.g. 80/443 for HTTP/HTTPS, 22 for SSH).
- **Cloud (AWS):** Master the core AWS services freshers are asked about. Specifically, learn how to launch and manage **EC2** instances and connect to them, store/retrieve files with **S3**, configure identity/permissions with **IAM**, and set up a basic **VPC/network**. Familiarize yourself with any managed container services (e.g. ECS/EKS basics) and serverless (AWS Lambda) at a high level. Being able to write and run AWS CLI commands or use the AWS console for these services is expected [9].
- **DevOps Tools:** Focus on tool depth appropriate for an internship. Know **Docker** thoroughly – building images, running containers, Dockerfile basics and container networking [7]. Understand one CI/CD tool well (e.g. setting up a Jenkins pipeline or GitHub Actions workflow) [4]. Learn **Terraform** (or CloudFormation) fundamentals to script AWS infrastructure [9]. Kubernetes knowledge is nice but only at a conceptual level – know what pods, deployments, and services are, but you need not write custom operators or advanced YAML (intern roles rarely require more than basic K8s usage) [8] [16]. Basic familiarity with version control (Git commands) and one programming/scripting language (Python or Go) is also advisable.

End of Report.

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[1] [4] [8] [12] Here's A Job Description For A DevOps Intern Based On The Format Used in The Provided Document | PDF | Cloud Computing | Software Engineering
https://www.scribd.com/document/838710400/Here-s-a-job-description-for-a-DevOps-Intern-based-on-the-format-used-in-the-provided-document

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[5] [7] [9] [11] [13] DevOps Intern - Branch International - Career Page
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[6] [10] Refonte Learning : Beginner’s Guide to Starting a DevOps Virtual Internship
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