Dheeraj Jain B

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SUMMARY

Computer Science undergraduate with hands-on experience in Linux (Red Hat, Debian), Docker, Kubernetes, and Azure DevOps. Skilled in CI/CD pipelines and container orchestration, eager to support infrastructure automation in a DevOps internship.

TECHNICAL SKILLS

- **Languages:** C++, Go, HTML, CSS
- **Skills:** Networking, Database, Server Management, Shell Scripting
- **Tools/Frameworks:** RESTful API, Git, Nextcloud, Openstack, Vim, VSCode, Android Studio, ReactJS, NextJS
- **DevOps:** Linux, Azure, Kubernetes, Docker, Jenkins, CI/CD, Ansible, Prometheus, Grafana, Loki, Promtail, Terraform

PROJECTS

Private Cloud Deployment - *Nextcloud, Networking, Server Deployment(Ubuntu), Security*

- Developed a secure, self-hosted cloud platform for efficient file storage and management.
- Dynamic DNS and port forwarding configured to ensure seamless access.
- Enhanced data security through encrypted communication and multi-user authentication.
- Achieved seamless file sharing and synchronization across devices.

FluxShell - *C++, Linux, Shell-Scripting, Algorithms, System Calls*   GitHub

- Engineered a custom Linux shell in C++ supporting essential commands like ls, pwd, and cd.
- Leveraged system calls (fork(), exec(), wait()) for efficient process management.
- Implemented a robust parser for accurate command interpretation and execution.
- Enhanced knowledge of the Linux system by replicating core shell functionalities.

C-RAD - *Python, Twilio, Computer Vision, Geocoder, Geopy*   GitHub

- Developed an AI-powered system for real-time accident detection using video streams.
- Applied deep learning algorithms to classify video frames as accident or non-accident.
- Integrated geolocation services to accurately pinpoint accident locations.
- Automated real-time SMS alerts to emergency contacts using Twilio.

Notes - *Kotlin, Android Development*   GitHub

- Designed and developed a feature-rich note-taking application for Android.
- Implemented robust search and filtering functionality for faster note retrieval.
- Provided advanced organization through labels, tags, and folders.
- My Contribution: Designed the user interface to improve usability and accessibility.

NovaDB - *C++ OOP, SQL, STL, Data Management and Structures*   **Ongoing**

- Developing a lightweight, high-performance database management system using C++.
- Implement core database operations (SELECT, INSERT, UPDATE, DELETE) with efficient query handling.
- Using binary files for optimized data storage.
- Design of query optimization algorithms for faster data retrieval.

ACHIEVEMENTS

- Top 5 Finalist in the State-Level Hackathon - C³ 2024.

EDUCATION

Bahubali College of Engineering, Karnataka   **CGPA-8.65**
Bachelor of Engineering in Computer Science   **Dec 2022 - May 2026**