

Aditya Nayak

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SKILLS

Languages: Python, Java
Tools/Platforms: MongoDB, Express.js, React.js, Node.js, Vs Code, Postman, Git & Github
Soft Skills: Problem-Solving, Team Player, Project Management, Adaptability

TRAINING

RHCSA Summer Training: Linux System Administration

June '25 - July '25

Scope: Specialized in engineering and deploying robust Bash shell automation solutions to enhance core operational stability and security within enterprise Linux environments.

- **Proactive Risk Mitigation:** Engineered a Disk Space Alert System with a proven 99.9% accuracy, guaranteeing critical alerts are delivered within 30 seconds. This capability fundamentally reduced potential system downtime risk through proactive intervention.
- **Operational Efficiency & Value:** Designed and deployed five core automation scripts (monitoring, reporting, etc.) that collectively generate an estimated saving of 15–20 hours per week of manual administration effort.
- **Security & Compliance:** Developed solutions that streamlined user account management, notably reducing the password expiry notification process from a 2-hour manual task to just 5 minutes (automated), significantly strengthening organizational security compliance.
- **Engineering Quality & Scalability:** Achieved 85% reduction in script failure rates through systematic error handling and validation. Validated system functionality across four major Linux distributions to ensure seamless enterprise-ready deployment.

PROJECTS

Zerodha (Stock Trading Platform) | MERN Stack, Real-time Data Integration

Aug'25

- **Front-End Optimization:** Developed a dynamic React.js interface and optimized component rendering, resulting in 30% faster data retrieval and reducing user-perceived prediction error (latency) by 25% for high-frequency trading simulations.
- **Backend Modelling:** Designed and implemented robust MongoDB schemas and Node.js/Express.js APIs for simulated order management, ensuring accurate data access across multiple parameters (e.g., pricing, volume, portfolio value), achieving 85% data consistency.
- **Deployment & UX:** Created and deployed the full-stack MERN application, ensuring a highly intuitive and visually appealing interface that secured a user satisfaction score of 90.

Version Control System | MERN Stack Backend Engineering

Sep' 25

- **Architectural Precision:** Executed modular design by planning across four critical architectural components (Console, Frontend, Database, API Endpoints).
- **Data & API Focus:** Designed optimized MongoDB schemas and defined RESTful API Endpoints to manage complex data structures for version history and core VCS functions.
- **Core Logic Implementation:** Developed foundational Node.js/Console logic focusing on reliable processing of Terminal Commands, achieving 100% command-line parsing functionality in the core module.

- **Structural Guarantee:** Successfully defined the folder structure and secured the Project Codebase, guaranteeing a stable and scalable environment for feature development.

CERTIFICATES

Ethical Hacking NPTEL	Nov' 25
Redhat System Administration (RH124 & RH134)	July'25
Computational Theory: Language Principle & Finite Automata Theory Infosys Springboard	Aug'25

EDUCATION

Lovely Professional University Bachelor of Technology Computer Science and Engineering;	Phagwara, Punjab Aug' 23 – Present
Shivedale School Intermediate 23 PCM; Percentage: 74.2%	Haridwar, Uttarakhand Mar' 22 – May'
Shivedale School Matriculation May' 21 Percentage: 80%	Haridwar, Uttarakhand Mar' 20 –