Akash Soni

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Education

Techno India NJR Institute of Technology   Udaipur, Rajasthan

B.Tech. Computer Science & Engineering **CGPA: 8.59**   09/2022 - 06/2026

Skills

Programming Languages: C, C++, Rust, JavaScript, Java, Go, TypeScript, Shell Scripting, Node.js, HTML, CSS
Databases: MySQL, MongoDB
Tools and Frameworks: Vite, React, Jupyter Notebook, VIM, Docker
Version Control: Git, GitHub
APIs: Postman, RESTful APIs
Networking: Knowledge of DDoS prevention, network security & protocols.
Methodologies: Agile, Scrum, DevOps

Experience

Data Science Intern   IBM SkillBuild, Remote   06/2023 - 08/2023

- Collaborated on the Lung Cancer Analysis Project, focusing on data analytics and visualization techniques, resulting in improved insights for research.
- Developed foundational skills in data analytics using Python and gained experience with Spark fundamentals and Hadoop.
- Contributed to the analysis and interpretation of data to drive insights for lung cancer research, applying statistical analysis and data visualization techniques.

Projects

P1 **NoteBook Desktop Application** - Link

- **Description:** A powerful Electron application designed to streamline note-taking, built with React and TypeScript. Notebook provides an intuitive interface for organizing thoughts, ideas, and tasks.
- **Features:** Create and manage notes with tags and categories for easy retrieval.
- **Platforms Supported:** Successfully tested on Kali Linux, Arch Linux, Ubuntu, and Windows 11.
- **Technologies Used:** Electron, React, TypeScript, Node.js, npm, Git

P2 **rshell** - Link

- **Description:** A custom UNIX shell built entirely in Rust, providing a seamless and efficient command-line experience for UNIX-like operating systems.
- **Features:** Fast and memory-safe shell capable of executing all kinds of UNIX commands.
- **Technologies Used:** Rust, Cargo, CLI development

P3 **RUST-Hash-Checker** - Link

- **Description:** A CLI tool built in Rust that converts strings to their SHA-256 hashes and checks them against a list of hashed passwords, providing secure password management and hash comparison functionalities.
- **Features:**
  - Converts a provided string into its corresponding SHA-256 hash.
  - Compares a given SHA-256 hash against a password list to find matches.
- **Technologies Used:** Rust, SHA-256, Cargo
- **Crates Used:**
  - *clap (v2.33)* for command-line argument parsing
  - *sha2 (v0.10.8)* for hashing functionality
  - *colored (v2.1.0)* for colored output in the CLI

P* **Additional Projects** : Visit Gallery

Certificates

1. **Google Cybersecurity Certificates**
   - Fundamentals of Cybersecurity
   - Automate Cybersecurity Tasks with Python
   - Connect and Protect: Networks and Network Security

2. **Harvard University**
   - CS50x: Introduction to Computer Science

3. **CodeChef**
   - Learn C++ (Pro)

4. **HackerRank**
   - Golang Basic Certificate
   - SQL Basic Certificate

5. **Microsoft LinkedIn**
   - Career Essentials in Generative AI

6. **Postman**
   - Postman API

7. **Cybrary**
   - Network Fundamentals
   - Offensive Penetration Testing

8. **Additional Certificates**
   - Great Learning: Agile
   - Great Learning: Front End Development (HTML & CSS)