# Akash Soni

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## Education

**Techno India NJR Institute of Technology, Udaipur (Raj.)**                    09/2022 - 06/2026
B.Tech. Computer Science & Engineering **CGPA : 8.59**

## Skills

**Programming Languages:** C, C++, Rust, JavaScript, Java, Go, TypeScript, Shell Scripting
**Databases:** MySQL, MongoDB
**Full Stack & MERN Stack:** React, Express, Node.js, MongoDB, Vite, Tauri, HTML, CSS
**DevOps, Cloud & Tools:** SSH, Jupyter Notebook, VIM, Ansible, Docker, Kubernetes, Jenkins, AWS, Git, GitHub, Postman, RESTful APIs
**Security:** DDoS mitigation, network security, Linux hardening, SELinux, vulnerability scanning, ethical hacking basics
- Tools: Wireshark, Nmap, OWASP Zap, Burp Suite, Metasploit

**Networking:** Strong foundation of TCP/IP, DNS, server configuration, network protocols, network infrastructure & Firewalls (iptables, ufw, firewalld), SSH
**Methodologies:** Agile, Scrum, DevOps
**OS:** Strong foundation in Linux/UNIX-based systems
- Preferred distros: Kali Linux (security testing), RHEL 9 (system administration), Arch Linux (performance-oriented)

## Experience

**Data Science Intern**                    IBM SkillBuild, Remote                    06/2023 - 08/2023
- Lung Cancer Analysis using linear regression.
- Data cleaning, data visualization and data modelling.
- Applied statistical and exploratory analysis to support research accuracy.

**Cybersecurity Fundamentals Intern**                    CSRBOX, Remote                    10/2024 - 11/2024
- Completed a two-week internship under IBM SkillsBuild, covering cybersecurity basics and best practices.
- Gained hands-on exposure to threat models, security protocols, and cyber hygiene.
- Strengthened foundational skills in network security and vulnerability assessment.

## Projects

P1 **Hackathon Finalist - LogiTHON 2025** - github.com/Tech-Transit
- **Description:** Competed in a 24-hour hackathon, solving a route optimization and real-time cargo tracking challenge to enhance supply chain efficiency.
- **Logistics Optimization:** Optimized multi-modal transport routes, improving efficiency by ~25%, reducing costs, and cutting delivery time by ~20%
- **My Contribution:**
  - **Led the full-stack development**, deploying both frontend and backend systems for seamless integration.
  - **Implemented real-time route optimization**, utilizing *Kubernetes (K8s)* for scalable deployment and *Docker* for containerization.
  - Contributed to designing the architecture and integrating the database for efficient **real-time data modeling**.

P2 **Internal Round Winner - Smart India Hackathon 2024** - github.com/akash2061/SIH-2024
- **Description:** Smart India Hackathon 2024 Internal Round Winner As part of Team ZEROV2, I participated in the Smart India Hackathon 2024 and won the internal round.
- **Features:** Implemented face detection, honeypot forms, machine learning-based user interaction tracking, and DDoS prevention techniques for effective bot differentiation.
- **My Contribution:**
  - Developed robust **DDoS prevention systems** to monitor and analyze incoming traffic, detecting and blocking suspicious activities.
  - Integrated **IP tracking** to block harmful requests before they escalated into threats.
  - Ensured resilience against DDoS attacks, **maintaining system stability** under high-pressure conditions.

**P3 NoteBook Desktop Application** - [github.com/akash2061/NoteBook-app](github.com/akash2061/NoteBook-app)

- **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:** Offers an intuitive interface for **creating, organizing, and categorizing notes** using tags for seamless access and retrieval.
- **Compatibility:** Cross-platform support with successful deployment on *Kali Linux*, *Arch Linux*, *Ubuntu*, and *Windows 11*.
- **Technologies Used:** Electron, React, TypeScript, Node.js, npm, Git, GitHub.

**P4 RUST Hash Checker** - [github.com/akash2061/RUST-Hash-Checker](github.com/akash2061/RUST-Hash-Checker)

- **Description:** A lightweight and secure Rust-based CLI security tool for SHA-256 hashing and password validation, useful in basic cybersecurity workflows and audits.
- **Features:** Converts user-input strings into **SHA-256 hashes**. Compares generated hashes against a predefined password list to detect potential matches & updates pass-list. Fully compatible with *all terminal environments* across *Unix* and *Windows platforms*.
- **Technologies Used:** Rust, SHA-256, Cargo, CLI.

**P5 Pomodoro Timer App** - [github.com/akash2061/Pomodoro-Timer-App-Rust](github.com/akash2061/Pomodoro-Timer-App-Rust)

- **Description:** A lightweight and secure desktop productivity tool built with Rust and Tauri v2, designed to enhance focus using the Pomodoro technique.
- **Features:** Customizable Pomodoro timer with adjustable work and break intervals. **Built-in sound alerts** for session transitions. Minimalistic UI optimized for *Linux* and *Windows 11* environments.
- **Technologies Used:** Rust, Tauri v2, Node.js, React, JavaScript, HTML, CSS, GitHub.

**P* Additional Projects:** Explore more projects, including mini-projects and my learning journey, at [github.com/akash2061/Code_Canvas](github.com/akash2061/Code_Canvas)

## Certificates

- **GitHub Foundations** | GitHub
  - Issued 01/2025 · Expires 01/2028
- **Google Cybersecurity Specialization** | Google
  - Issued 02/2024
- **Postman API Fundamentals Student Expert** | Postman API
  - Issued 04/2024
- **CS50x** | Harvard University
  - Issued 09/2023
- **OWASP® Top 10 Security Threats (SKF100)** | The Linux Foundation
  - Issued 12/2024
- **Offensive Penetration Testing** | Cybrary
  - Issued 05/2024
- **Network Fundamentals** | Cybrary
  - Issued 06/2024
- **Cybersecurity Fundamentals** | IBM
  - Issued 08/2024
- **LFEL1002: Getting Started with Rust** | The Linux Foundation
  - Issued 11/2024
- **Linux 100: Fundamentals** | TCM Security
  - Issued 11/2024
- **Docker Foundations Professional Certificate** | Docker, Inc
  - Issued 01/2025
- **Docker Essentials: A Developer Introduction** | IBM
  - Issued 11/2024
- **Introduction to Containers, Kubernetes, and OpenShift V2** | Cognitive Class
  - Issued 01/2025