

VIKASH KUMAR SINGH

Sherpur Bahori, Mahua, Vaishali (Bihar)

8409792083 | vikashkumarsingh8352@gmail.com | [LinkedIn](#)

[Github](#) | [Portfolio](#)

Professional Summary

Aspiring Java Engineer with experience in backend development, system administration, and secure authentication systems. Red Hat Certified System Administrator with a strong foundation in Java, cloud technologies, and open-source tools. Focused on building scalable, secure applications and contributing to impactful software projects.

Technical Skills

- **Programming Languages:** Java, Python, C, C++, Node.js, Kotlin
- **Cloud Platforms:** AWS, Google Cloud
- **Development Tools:** Android Development, Firebase, Postman, Docker, Git, RESTful APIs, MongoDB, Vercel, PostMan
- **Certifications:** Red Hat Certified System Administrator (RHCSA) – ID: 230-080-798, Google Cloud Developer Certified, NPTEL Certification in Operating System

Education

Arya College of Engineering and IT, Rajasthan Technical University

B.Tech, Artificial Intelligence and Data Science

- **GPA:** 8.1

Sep 2021 - Apr 2025

Jaipur, Rajasthan

R.N. College, BSEB

Senior Secondary Education

- **GPA:** 6.32

Apr 2019 - Mar 2021

Hajipur, Bihar

UMS Parmanandpur, BSEB

Secondary Education

- **GPA:** 8.1

Apr 2018 - Mar 2019

ParmanandPur, Mahua, Bihar

Internship Experience

Celebal Technologies

RedHat Intern

Jun 2024 - Sep 2024

Jaipur

- Explored Linux system administration fundamentals, including shell scripting and server configuration, leading to improved efficiency in managing server tasks.
- Configured servers and administered systems in lab environments using Git enhancing practical skills in system management.
- Gained hands-on experience with open-source tools and methodologies, contributing to collaborative projects and deepening understanding of open-source ecosystems.

Projects

Zorvik-Ai | [Github](#)

Arya College of Engineering and IT

Jan 2025 - Apr 2025

Jaipur

- Developed a high-performance backend using FastAPI and Uvicorn, enabling efficient processing of API requests for AI-powered chat and machine translation of pseudo language using multi-model APIs.
- Integrated Firebase Firestore for real-time storage and retrieval of chat data, prompt storage, and code snippets, ensuring seamless data management for interactive features.
- Designed and implemented API endpoints to support next-word prediction and prompt storage, optimizing backend logic for real-time AI-driven responses.

Secure Authentication System | [Github](#)

Nov 2024 - Jan 2025

- Built a secure authentication system using Argon2 hashing, JWT based login, TOTP-based 2FA, and encrypted APIs; hosted on Vercel with user data stored in Firebase.
- Implemented session handling, account recovery mechanisms, and deterministic hashing for secure, multi-device access and user privacy.
- Designed and tested RESTful APIs with Postman, logging all operational events in MongoDB for traceability without exposing sensitive data.

SecureChat

Feb 2024 - Apr 2024

- Created a real-time chat application leveraging Java and Firebase, offering seamless and anonymous user communication.
- Secured user privacy with end-to-end encryption using xsalsa20 instead of traditional AES-256, ensuring robust data protection.
- Engineered a fast, memory-efficient Android UI with custom views and input handling, ensuring a smooth user experience on low-end devices.

E-Shop (E-Commerce Application) | [Github](#)

Jan 2023 - Apr 2023

- Developed a secure and user-friendly e-commerce mobile application using Java and Firebase for real-time authentication and database integration.
- Implemented a seller verification feature allowing users to authenticate their identity before listing products, ensuring platform trust and reducing fraudulent listings.
- Integrated a payment gateway with Easy UPI Payment library, enhancing transaction security and reducing payment-related issues by 50%.