

Harsh Khandelwal

Software Engineer

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GitHub: <https://github.com/redhik>

Location: Jaipur, Rajasthan, India

Professional Summary

Highly skilled Software Engineer with over 2 years of experience in backend development, data structures, algorithms, and system design.

Education

National Institute of Technology, Warangal (NIT Warangal)

Master of Science in Mathematics and Scientific Computing, 2020 - 2022

CGPA: 8.3

Relevant Coursework: Advanced Algorithms, Data Structures, Machine Learning

The ICFAI University, Jaipur

Bachelor of Science in Mathematics, 2017 - 2020

CGPA: 9.28

Relevant Coursework: Linear Algebra, Probability and Statistics, Numerical Methods

Skills

Technical Skills:

- Programming Languages: Java, C++, C, Python
- Frameworks: Dropwizard
- Databases: SQL
- Tools: Git, Terraform

Areas of Interest:

- Data Structures and Algorithms
 - Backend Development
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- Object-Oriented Programming (OOP)

Experience

Oracle, India

Member Of Technical Staff

July 2022 - Present

- Collaborated with a global team of 30+ members to develop the Operating System Management Service (OSMS).
- Developed a Python-based CLI tool for OSMS v1 to v2 migration, enabling over 1,000 companies to efficiently migrate their OSMS.
- Reduced on-call bugs by 20% by developing REST APIs in the Modules service, enhancing Spacewalk Microservices.
- Completed over 80 days of on-call shifts; migrated database connection pools from c3p0 to HikariCP for multiple databases.
- Improved cleanup processes for OSMS, reducing inactive users by 50% in one region and saving substantial resources.

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Projects

Crypto CLI Tool

- Designed and implemented a command-line interface using Python and Typer for a user-friendly experience.
- Integrated features such as encryption and decryption using Caesar Cipher, RSA, and Vigenere Cipher, enhanced

Achievements and Extracurricular

Achievements:

- Awarded the gold medal for academic excellence in Bachelor's degree in Mathematics.
- Achieved top 1% rank in the highly competitive TIFR entrance exam for PhD aspirants, successfully standing

Extracurricular Activities:

- Cooking
- Cricket
- Anime