

Harsh Khandelwal

Software Engineer

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Jaipur, Rajasthan, India

EDUCATION

National Institute of Technology, Warangal (NIT Warangal)

2020 - 2022

Master of Science - Mathematics and Scientific Computing

CGPA: 8.3

The ICFAI University, Jaipur

2017 - 2020

Bachelor of Science - Mathematics

CGPA: 9.28

SKILLS

Development Toolkit: Java, C++, C, Python, Dropwizard, MongoDB, SQL, Git.

Areas of Interest: Data Structure and Algorithm, Backend Development, Object Oriented Programming (OOPS).

EXPERIENCE

Oracle

07/2022 - Present

Member Of Technical Staff

India

- 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, including instance creation script and policy-checker for a user, enabling over 1,000 companies to efficiently upgrade and manage their systems.
- Reduced up to 20% on-call bugs by developing the Rest Apis in Modules service, hence making the Spacewalk Microservice aware of the upgradeable module streams.
- Completed over 80 days of On-call shifts, included Migrated database connection pools from c3p0 to HikariCP for multiple services, designed interface based mocks for external Api calls, standardized service health metrics, created Terraform alarms for high-traffic scenarios, and developed business KPIs to track customer activity.
- Improved cleanup processes for OSMS, reducing inactive users by approximately 50% in one region, leading to substantial resource savings.
- Exposure: Java, Dropwizard, Python, Oracle Cloud, TestNG, Git, Agile methodology, On-call, Terraform.

PROJECTS

Friends App - Backend

An application for finding friends near your area in both a fun and private way.

- Created a scalable Node.js backend with an interest and distance based Matching Algorithm.

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.

ACHIEVEMENTS AND EXTRACURRICULAR

Achievements:

Gold Medalist in B.Sc. Mathematics:-

–Awarded the gold medal for academic excellence in Bachelor's degree in Mathematics.

Cleared TIFR Mathematics Entrance Exam:-

–One of the top 10 students from the state to successfully clear the entrance exam for the Tata Institute of Fundamental Research (TIFR) Mathematics program.

Extracurricular: Cooking, Cricket, Geopolitics.