Harsh Khandelwal

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience in developing and maintaining complex systems and applications. Proficient in Java, Python, and C++ with a focus on backend development, data structures, and algorithms. Experienced in working with cross-functional teams to deliver software solutions. Demonstrated success in improving system efficiency, reducing bugs, debugging and enhancing user experience. Knowledgeable in Agile methodologies and pledged to continuous learning.

EDUCATION

National Institute of Technology, Warangal (NIT Warangal) *Aug. 2020 - Jun. 2022*
Master of Science - Mathematics and Scientific Computing

The ICFAI University, Jaipur *Aug. 2017 - Jun. 2020*
Bachelor of Science - Mathematics

SKILLS

- **Languages**: Java, Python, C++, C
- **Frameworks**: Dropwizard, Express.js, React.js, Node.js
- **Tools & Technologies**: SQL, Git, Terraform, AWS, Oracle Cloud
- **Areas of Expertise**: Backend Development, Data Structures, Algorithms, Object-Oriented Programming (OOP), Agile Methodologies

EXPERIENCE

Oracle *Jul. 2022 - Present*
MTS 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 using Oracle Cloud Infrastructure and Python SDK enabling over 1000 companies to reduce there migration time up to 90%.
- Improved existing system efficiency by 20% through refactoring and optimization of key processes.
- Facilitated in code reviews and provided constructive feedback, leading to a 15% reduction in bugs.
- Improved cleanup processes for OSMS, reducing inactive users by approximately 50% in one region and savings substantial resource.

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.

EXTRA-CURRICULAR AND ACHIEVEMENT

Volunteered *Jun. 2020 - Jul. 2020*
The ICFAI University, Jaipur

- Designed and executed 10 innovative teaching modules focused on real-world applications of subject matter; increased student comprehension rates by 25% as evidenced by pre- and post-module assessments.

Achievement

- Achieved gold medal distinction by ranking first among 50+ students in B.Sc. Mathematics, demonstrating exceptional understanding and application of complex mathematical concepts and theories.
- Earned a top 1% rank in the TIFR Mathematics Entrance Exam, competing against 5,000 candidates; this achievement reflects a strong foundation in mathematics and readiness for advanced studies in the field.