

Harsh Khandelwal

Software Engineer

🌐 LinkedIn - Harsh Khandelwal

🐙 GitHub - Harsh Khandelwal

✉️ harsh32.hk@gmail.com

☎️ +91-9664491854

Jaipur, Rajasthan, India

PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience in backend development, proficient in Java, Python, and C++. Skilled in optimizing performance, debugging, and enhancing system efficiency, contributing to improved customer satisfaction. Experienced in Agile methodologies and committed to continuous learning.

EDUCATION

National Institute of Technology, Warangal (NIT Warangal)	Aug. 2020 - Jun. 2022
Master of Science - Mathematics and Computer Science	CGPA: 8.3
The ICFAI University, Jaipur	Aug. 2017 - Jun. 2020
Bachelor of Science - Mathematics	CGPA: 9.28

SKILLS

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

EXPERIENCE

Oracle	Jul. 2022 - Present
MTS	India
<ul style="list-style-type: none">• 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/customers to reduce their migration time up to 90%. Spearheaded the end-to-end infrastructure and application migration tool release, orchestrating a seamless transition that enhanced deployment efficiency.• 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 saving substantial resource.• Mocked microservices architecture that streamlined local testing processes, resulting in a time savings of 70-80%; this optimization accelerated the overall development cycle and facilitated quicker deployment of new features.• Designed and implemented a Python script that generated customized test instances for Migration CLI tool; this automation reduced setup time by 50%, allowing for faster testing and enhanced reliability of migration processes.• Facilitated seamless onboarding for new team members by creating comprehensive training materials and conducting live demonstrations; this initiative reduced the onboarding process duration by 30% and improved new hire productivity.• Successfully completed numerous on-call shifts, effectively debugging and resolving various customer issues.	

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.

- 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.