

Harshil Sharma

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SUMMARY

Aspiring Software Developer with expertise in Java, Python, and database management. Proficient in service-oriented architecture, software development process, and implementing innovative solutions. Skilled in solving complex problems and applying technical skills to deliver scalable applications using Agile methodologies. Analytical thinker eager to learn and collaborate.

SKILLS

Programming Languages: Java, Python, SQL, JavaScript

Frameworks: Hibernate, J2EE, Flask, Django

Databases: MySQL, PostgreSQL, MongoDB

Technologies: API Development, Web Services, Service-Oriented Architecture, Agile Methodology, MVC

Tools: Eclipse, SVN, JUnit, Maven, PrimeFaces

EXPERIENCE

PRiME Center, Saint Louis University

Oct 2024 – Present

Tech and Research Assistant

- Developed scalable Python and Java applications, ensuring seamless API integration for research projects.
- Conducted systems analysis, implementing software improvements that enhanced organizational operations.
- Leveraged Agile methodologies to align project deliverables with client requirements.

Taylor Geospatial Institute, Saint Louis University

Feb 2024 – Aug 2024

Software Engineer Intern

- Designed RESTful APIs and optimized SQL queries for faster database interactions, reducing latency by 30%.
- Implemented Hibernate-based data solutions, improving data handling and system performance.
- Collaborated with cross-functional teams to develop features aligned with service-oriented architecture.

Neem Consulting Ltd, Bangalore, India

Dec 2022 – Jun 2023

Technical Intern

- Developed application modules using JUnit and Maven, adhering to software design patterns like MVC.
- Enhanced scalability of applications, integrating MySQL and PostgreSQL for efficient database management.
- Contributed to debugging and optimization, improving error resolution efficiency by 20%.

PROJECTS

Personalized Event Detection System for Accident Prevention

Oct 2024 – Present

- Optimized event-camera data processing for real-time accident detection using Python and TensorFlow.
- Enhanced prediction accuracy by 30%, reducing false positives in real-world scenarios.

Automated Attendance System Using Facial Recognition

Jan 2023 – Mar 2023

- Built a facial recognition system using OpenCV and Python, achieving 92% accuracy.
- Trained a convolutional neural network (CNN) for high-accuracy real-time video stream tracking.

Contrast Calculator with Enhanced Computer Vision

May 2024 – Jul 2024

- Designed a computer vision-based contrast calculator to improve accessibility for visually impaired users.
- Boosted system efficiency and user satisfaction, improving accessibility performance by 30%.

Scalable Geospatial Data Processing Platform

Feb 2023 – May 2023

- Developed an AWS-powered geospatial data analysis pipeline, reducing latency by 40%.
- Utilized Docker and Kubernetes for scalable, fault-tolerant real-time data processing.

IoT-Based Student Tracking System Using RFID

Jan 2023 – May 2023

- Integrated RFID tags with backend systems to track students, reducing manual interventions by 60%.
- Designed a backend using Flask and database systems for efficient data handling.

EDUCATION

Saint Louis University, St. Louis, MO

Aug 2023 – May 2025

Master of Science in Computer Science – GPA: 3.71/4.00

- Relevant Coursework: Advanced Java Programming, Machine Learning, Database Systems, Software Engineering.

SRM Institute of Science and Technology, Chennai, India

Aug 2019 – Jun 2023

Bachelor of Technology in Computer Science Engineering

- Relevant Coursework: Object-Oriented Programming, Web Development, Agile Methodologies, Data Structures.

CERTIFICATIONS

Certified Java Developer

AWS Academy Graduate - AWS Academy Cloud Foundation

Advanced Python for Data Science Certification