

# Gaurav Mishra

Pune

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## EDUCATION

### MIT World Peace University

Bachelor of Technology in Computer Science; CGPA: 8.45/10

Pune, Maharashtra

August 2022 – Present

- **Relevant Coursework:** Data Structures, Algorithm Analysis, Artificial Intelligence, Big Data Technologies, Database Management, Operating System, Computer Architecture, Computer Networks, Design Thinking

### K.R.Mangalam World School

SSC: 95%, HSC: 80%, JEE Mains 2022: 94%ile

Vaishali, Uttar Pradesh

2019-2020, 2021-2022

## EXPERIENCE

### Steel Authority of India (SAIL)

Summer SDE Intern

Bhilai, Chhattisgarh

June 2024 – July 2024

- **Enhanced Payroll Management System:** Spearheaded the development of enhancements for the payroll management system using Java, JSP, Java Servlet, and Oracle Database. Successfully deployed the project on Apache Tomcat, resulting in a 25% reduction in payroll processing time and increased system reliability.

## TECHNICAL SKILLS

**Languages:** C++, Python, C, HTML, CSS, JavaScript, SQL, Java, Assembly, NOSQL,

**Frameworks/Libraries:** Django, Pandas, NumPy, Matplotlib, Tkinter, Bootstrap, Object-Oriented Programming, Hadoop, React-JS, Node-Js, Tailwind, PowerBi, Apache Spark, Django,

**Technologies:** Linux, Git, Apache Tomcat, JavaServer Pages (JSP), Java Servlet

**Tools:** VS Code, Eclipse, GitHub, ChatGPT

## PROJECTS

**File Zipper:** A File Zipper project in C++ uses Huffman Coding to efficiently compress and decompress files. By employing binary trees and priority queues, it reduces file size while maintaining data integrity, ensuring fast and effective large-scale file handling.

**Mahametro Hackathon:** Pioneered a computer vision-based machine learning model in Python to identify escalator falls, enhancing passenger safety by 45% and operational efficiency by 30% with real-time deployment on edge devices.

**Quiz Platform:** Developed an online quiz platform using the MERN stack (MongoDB, Express.js, React.js, Node.js) that supports user authentication, quiz creation, and real-time grading. Integrated a responsive design with TailwindCSS for data management.

**Ticket Booking System:** Developed a robust ticket booking system using Tkinter for the frontend and MySQL for the backend. Implemented features such as user authentication, ticket reservation, and invoice generation.

## LEADERSHIP & EXTRACURRICULAR

- Head Boy (2021-2022)
- Volunteered in RIDE'23 at MIT WPU
- Lead 50-member team in Rural Immersion Program 2023
- State-level Gold Medalist in Karate
- Participated in Maha-Metro hackathon 2024

## MENTORSHIP

**IoT Projects:** Mentored a group of junior students over a 3-day period, providing hands-on guidance in developing IoT-based smart city solutions. Conducted workshops on sensors, data acquisition, and real-time data processing using Arduino and Raspberry Pi. Assisted students in implementing smart traffic management systems and environmental monitoring solutions. Oversaw project planning, coding, and testing phases, leading to innovative and functional prototypes that were showcased at university-level tech fests and recognized for their practical applications.