

# BHIMASHANKAR WAGALGAVE

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## ABOUT ME

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A highly motivated Application Developer with hands-on experience in full-stack development, automation tools, XR-based training applications, and enterprise-level Learning Management Systems (LMS). I have worked on real-world production projects used by major manufacturing companies such as Schaeffler, Mahindra, Thyssenkrupp, and others. Skilled in backend development, API integrations, and building interactive training systems. I am passionate about developing impactful software solutions, full-stack applications, and immersive game experiences using Unity.

## SKILLS

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**Programming Languages:** Java, C++, Python, Node.js, JavaScript, C#

**Web Development:** HTML, CSS, JavaScript, WordPress

**Frameworks & Libraries:** Flask, Express.js, Selenium (WebDriver), Three.js, Paper.js

**Game Development:** Unity, C#, Blender, XR Toolkit, VR (Testing and Interaction Design)

**Databases:** MySQL

**Tools:** Visual Studio, Eclipse IDE

**Platforms:** AWS (EC2), GitHub

**Core Subjects:** Linear Algebra, Computational Geometry, Statistics and Probability

## EXPERIENCE

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### Application Developer — Parallel Learning Pvt. Ltd.

*May 2025 – Present*

Parallel Learning develops industrial training systems, advanced factory automation tools, XR simulations, and LMS platforms for major manufacturing companies.

#### 1. Full-Stack Developer – Learning Management System (LMS)

- Built a full-stack LMS used by Schaeffler, Mahindra, and Thyssenkrupp.
- Developed Admin & Employee portals using Node.js, Express.js, HTML/CSS, and MySQL.
- Implemented employee management, course assignment, grades, and work passport generation.
- Built scalable backend APIs and clean front-end UI for training modules.

#### 2. Audience Response System (ARS)

- Developed interactive quiz and evaluation modules.
- Added real-time scoring with MySQL integration.

#### 3. XR/VR Game Development – Emergency Preparedness Simulation

- Worked with 3D animators to integrate Blender environments into Unity.
- Built gameplay logic using C# and Unity XR Toolkit.
- Conducted VR testing for interaction accuracy, ergonomics, and real-world training consistency.
- Designed two levels: safety asset verification and office fire emergency simulation.

### Web Developer Intern — Softgenio Technology

*Mar 2025 – May 2025*

- Developed responsive websites using HTML, CSS, and WordPress.
- Delivered a modern, production-ready conference website.

## **EDUCATION**

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**M.Sc. Industrial Mathematics with Computer Applications** Savitribai Phule Pune University  
**CGPA: 8.84**  
2023–2025

**B.Sc. Mathematics** Annasaheb Magar College, Hadapsar  
2020–2023 **CGPA: 9.19**

## **ACADEMIC PROJECTS**

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### **Student Management System (Java Swing + JDBC)**

- A complete desktop solution for managing student data with full CRUD operations.
- Features include adding new students, confirming admission, updating marks, viewing profiles, and deleting records.
- Designed using Java Swing for UI and JDBC for database operations.
- Impactful project for institutes needing efficient student information management.

### **3D Wall Clock (TypeScript + Three.js)**

- Developed a dynamic 3D clock rendered using WebGL and Three.js.
- Demonstrated real-time movement of clock hands using mathematical transformations.
- Showcased strong 3D concepts, browser rendering, and TypeScript proficiency.

### **C++ Quiz System — Console-Based Application**

- Built a console-based MCQ quiz system using C++.
- Questions refresh dynamically, allowing repeated attempts with new sets.
- Displays score immediately after completion with structured evaluation logic.

## **VOLUNTEER EXPERIENCE**

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**National Mathematics Day — Solitaire Cooperative Housing Society, Pune (2024)** Organized math-based games and activities to promote learning.

**Alumni Meet — IMCA Pune University (2024)** Anchored the event and managed stage flow.