

# Shardul Hirolkar

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## EDUCATION

**Vishwakarma Institute of Technology, Pune**

2024 - 2028

Bachelor of technology, Computer Science and Engineering (Artificial Intelligence)

CGPA - 9.38

Relevant coursework: AI, DSA, OOP, DBMS

## PROJECTS

- **MNIST Digit Recognition (Python, RayLib/PyRay)** - Designed and trained a neural network from scratch achieving ~92% accuracy; built a GUI for real-time handwritten digit testing
- **2D Cloth Simulation (Python, RayLib/PyRay)** - Developed a real-time interactive cloth simulator with adjustable stiffness, damping, and fabric-cutting mechanics
- **A\* Algorithm Visualizer (p5.js)** - Implemented an interactive grid-based pathfinding visualization demonstrating A\* algorithm mechanics
- **Mini Brick Breaker (Python, RayLib/PyRay)** - Created an arcade-style game with object-oriented logic, custom physics, and collision detection
- **Tic Tac Toe Bot (HTML, JavaScript)** - Built a browser-based game featuring an AI opponent using the Minimax algorithm

## EXPERIENCE AND ACHIEVEMENTS

- **Solved 100+ problems on LeetCode** - consistent practice in C++ and Python
- **Contributor, GirlScript Summer of Code 2025** - Contributed to open-source projects and submitted multiple pull requests as part of a 3-month mentorship program (ongoing)
- **Shortlisted (Stage 2), PCCoE Indradhanu Hackathon 2025** - Advanced to second round for developing an AI-driven climate change solution
- **Coordinator, GameDev+ Club, VIT Pune** - Created, rigged multiple 3D game assets and edited development logs for collaborative game projects
- **Member, Vi-Culp Cultural Club, VIT Pune** - Edited multimedia content and designed event props for cultural performances

## SKILLS AND CERTIFICATIONS

**Technical Skills:** C, C++, Python, JavaScript, Lua, Node.js, React.js, Flask, RayLib/PyRay, Pandas, NumPy, Matplotlib, MySQL, Git

### Certifications:

- Cybersecurity Workshop
  - Certificate of Appreciation
  - Basics of Python
  - Git & GitHub Workshop
- VIT Pune, Aug 2025  
GameDev+ Club, VIT Pune, Jan 2024  
Infosys Springboard, Jan 2025  
Team Quark, VIT Pune, Jan 2024