

GARIMA

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EDUCATION

B.E. in Computer Science and Engineering

Sep 2022 - Present

Thapar Institute of Engineering and Technology, Patiala

Current CGPA: 9.14/10.00

Recipient of a Merit Scholarship (INR 1.7 Lakhs) for outstanding academic performance.

EXPERIENCE

Software Engineer Intern | Microsoft | Hyderabad, India

June 2025 - August 2025

- Built an intelligent agent and scheduler to automate refresh rollouts and monitor deployment staleness in Azure ML for efficient fleet operations.
- Tools used: C#, .NET, Azure Functions, Azure DevOps, Model Context Protocol, Azure ML, Durable Task Framework, Application Insights, Azure AI Foundry

Open Source Contributor | Processing Foundation | Remote

Oct 2023 - January 2025

- Enhanced WebGL performance, contributed new features, refactored core code, added unit tests, and improved documentation in a large-scale JavaScript codebase.
- Implemented separate stroke and fill shaders ([issue #6759](#)), introducing a new API with tests and documentation to improve rendering flexibility and user control in p5.js.

PROJECTS

GreenShield | Real-time AI-powered Forest Monitoring System

January 2025 - Present

Working on an AI system using Sentinel-2 satellite data and deep learning to detect deforestation in real-time, with support from the District Forest Officer, Patiala Division, enabling timely action on inappropriate forest activities.

LeafLens | Plant Disease Detection System

November 2024

Built a Streamlit-based web app using CNN and ML libraries to detect plant diseases from leaf images, enabling timely intervention.

HouseKeeper | Hostel Room Cleaning Management System

April 2024 - May 2024

Developed a web platform in a team of 5 to streamline hostel room cleaning services, replacing WhatsApp with a role-based system for students, housekeepers, and admins.

SKILLS

- Languages:** C/C++, C#, Python, JavaScript, SQL, R, HTML/CSS
- CS Fundamentals:** OOP, DSA, OS, CN, RDBMS, Software Engineering
- Cloud & DevOps:** Azure (DevOps, Functions, App Service, AI Foundry, ML, CLI), AWS
- Technologies:** ML/AI, Deep Learning, WebGL, GLSL, MCP, MongoDB, Blender, Web Scraping
- Frameworks:** .NET, Node.js, Express.js, Streamlit
- Libraries:** TensorFlow, OpenCV, scikit-learn, Pandas, NumPy, Matplotlib, Three.js, p5.js, Newtonsoft.Json
- Tools:** Git, GitHub, VS Code, Jupyter, Anaconda, Azure Application Insights
- Soft Skills:** Leadership, Decision Making, Problem Solving, Time Management
- Languages Known:** English, Hindi, Punjabi

CERTIFICATIONS

Getting Started with Accelerated Computing in CUDA C/C++, NVIDIA DLI

September 2025

Learned GPU programming fundamentals, parallel computing with CUDA, and performance profiling using Nsight Systems.

Accelerating End-to-End Data Science Workflows, NVIDIA DLI

January 2025

Gained knowledge of GPU-accelerated computing, parallel workflows, and RAPIDS libraries (cuDF, cuML, cuGraph)