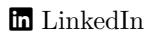


Shiva Nigam

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LinkedIn | GitHub | Leetcode | Hackerrank | YouTube

EDUCATION

Harcourt Butler Technical University (Formerly HBTI)

B.Tech in Electrical Engineering
EXPERIENCE

Kanpur, Uttar Pradesh

Dec 2021 – June 2025

Rebhu Computing (IIT-Roorkee GNEC)

Software Engineer — Computer Vision & LiDAR Mapping

September 2025 – Present

- Built a **real-time object tracking** module in **Python/OpenCV** using **Lucas-Kanade Optical Flow**; supports **click-to-track** interaction—tap a moving target and a tracking circle follows it frame-by-frame in live video.
- Developed an **interactive mouse system** to set/update targets on live camera feeds; added utilities for **grayscale conversion, image rotation, and rendering color + grayscale views in a single window** for demos/debugging.
- **Raspberry Pi 5** deployment: wrote a **camera calibration** script (captures **20 FPS** frame sets) and integrated an **ArUco-based landing** workflow—when a drone scans the **ArUco marker**, the system triggers precise landing on the mapped pad.
- **LiDAR mapping**: ingest and transform rotating LiDAR streams into **3D point clouds** and generate **2D canvas projections** for visualization; groundwork for SLAM-ready perception and environment understanding.

uFony Services Pvt. Ltd.

Software Engineering Intern (React + ASP.NET)

June 2025 – August 2025

Pune, Maharashtra

- Integrated **RFID feature** into the student admission workflow using **ASP.NET MVC** and SQL Server.
- Modified ViewModels, Controllers, and DB commands for end-to-end data flow using **C#** and **Entity Framework**.

Toast Studios

Software Development Intern (React.js + Node.js)

Feb 2025 – June 2025

Bangalore, Karnataka

- Built a **Customer Support platform** handling **1K+** weekly player queries, integrating **AWS Athena** with **React.js + Node.js** for instant gameplay data retrieval.
- Launched a **real-time dashboard for revenue, retention, and user activity** across **3+ live games**, with **currency-aware filters** and lobby-specific insights.
- Enhanced UX with **timescale filters** and **date pickers**, boosting dashboard responsiveness by **25%**.
- Implemented **match-level log tracing** (card events, scores, turns) enabling agents to resolve issues in seconds.
- Reduced API overhead by **3X** using **React Hooks** and optimized frontend state management.
- Collaborated with backend teams to refine Athena query filters for accurate **GMV** and **margin** metrics.

TECHNICAL SKILLS

Languages: Java, SQL, C/C++, JavaScript, TypeScript, HTML/CSS, ASP.NET, C#, Python

Frontend: React, Vue.js, Material-UI, TailwindCSS

Backend / Frameworks: Node.js, FastAPI, ASP.NET MVC

Cloud / DevOps: Google Cloud Platform, AWS (Athena, EC2, S3), Docker

Version Control / Tools: Git, GitHub, Postman

Data / Analytics: AWS Athena, SQL-based Analytics, Metabase, Mixpanel

Computer Vision / LiDAR: OpenCV, NumPy, KITTI Dataset Handling, 3D Point Cloud Processing, Camera Calibration, LiDAR Mapping (Robosense/Velodyne), Image/Video Frame Processing

PROJECTS

ZwiggyGo | GitHub Live Demo

- Developed a **responsive food delivery web app** using **React.js**, inspired by Swiggy.
- Implemented **React Router, lazy loading, and skeleton loaders** to enhance UX and performance.
- Maintained modular, clean codebase with **ESLint**, structured for future features (auth, cart, payment).

ACHIEVEMENTS

- * **Solved over 800 problems**, ranking in the **top 5%** of all users globally.
- * **Authored and published editorial solutions**, garnering **80,000+ views** and a reputation score exceeding **600**.
- * Cleared **Oracle Cloud Infrastructure 2024 Generative AI Professional** certification with **87.5%**.
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