

LOHITHA KAKUMANI

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EDUCATION

GITAM University – Bengaluru, India

Aug 2022 – Apr 2026

B-Tech in Computer Science and Engineering | CGPA-9.72

- Relevant coursework: Software Engineering, Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Computer Networks, Natural Language Processing
- **Sri Chaitanya junior College** - Chittoor, India.
- Intermediate in MPC | percentage:97%

SKILLS

- **Languages:** C++, Java
- **Database and APIs:** MongoDB, SQL, REST APIs, JSON
- **Web Technologies:** HTML/CSS3, JavaScript (ES6), React.js, Firebase
- **Technologies & Tools:** Git, GitHub, VS Code, Google Collab, GCP Basics, PyTorch (beginner), Pandas, NumPy, IDEs, Figma, UI/UX
- **DSA:** LeetCode - https://leetcode.com/u/clvk_hi45/

INTERNSHIPS

INTEL UNNATI

May 2025 – Present

Project: Image Processing using Knowledge Distillation

- Built a CNN-based image deblurring system using a Teacher-Student knowledge distillation approach, achieving >90% SSIM.
- Developed a lightweight Student model optimized for real-time performance (30+ FPS) and deployed via Fast API with a frontend UI.
- Applying model compression and conducted subjective testing (MOS) to ensure quality and efficiency for deployment.

SDVLAB | Student Intern

Feb 2025 – Present

Project: Advanced Driver Assistance System (ADAS)

Gitam University (Blr)

- Developing a real-time object detection system using Python and OpenCV, improving obstacle recognition accuracy by 35%.
- Implemented lane detection and driver alert features, reducing lane departure errors by 40% and enhancing vehicle safety.
- Optimized algorithms for real-time performance, achieving a 20% increase in processing speed on test environments.

99 YARDS | Software Engineering Intern Feb 2024 – Apr 2024 Frontend + AI Integration Remote (Startup located in New York City, USA)

- **Engineered UI components** for a React Native mobile application, accelerating development cycles and delivering a seamless, intuitive user interface across devices.
- **Integrated AI-driven automation** for real-time data processing and intelligent user interaction, boosting engagement rates by 30% and enhancing personalization.

PROJECTS

SHOPPER – Full-Stack E-Commerce Website with Admin Panel

Tech Stack: React.js | Node.js | Express.js | MongoDB

- **Designed a mobile-responsive E-commerce web application**, enabling intuitive product discovery, streamlined cart operations, and secure multi-step user authentication.
- **Architected robust admin and student dashboards**, empowering role-based access to manage inventory, oversee customer data, and monitor real-time order activity efficiently.
- **Leveraged RESTful API integration with a MongoDB-powered backend**, optimizing query performance and cutting transaction failures by 20%, while improving server throughput by 25%.

Pose-Controlled Subway Surfer Game

Tech Stack: Python | OpenCV | Media Pipe

- **Engineered and deployed** a real-time Subway Surfer clone, enabling gameplay through webcam-based body gesture controls.
- **Harnessed** Media Pipe and OpenCV technologies to enable accurate pose estimation and responsive gesture-based controls, delivering an engaging user experience.

AWARDS AND CERTIFICATES

- AICTE EDUSKILLS COURSE- Android Developer Virtual Internship
- SIH HACKATHON 2023 participation certificate (top 15 finalist)
- SIH HACKATHON 2024 participation certificate (top 30 finalist)

COMMUNITY ACTIVITIES

STUDENT CO-ORDINATOR | CGC

Jan 2024 – Present

- Organized 5+ campus events, increasing student participation by 40%. Streamlined student faculty interaction, cutting response time for academic queries by 30%.

CODEX | LOGISTIC OFFICER

Jun 2023 – Jan 2024

- Improved logistics operations by 20%, led projects to boost effectiveness by 15%, and mentored students, resulting in a 25% increase in their technical skills and performance.