

Balu Pasumarthi

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EDUCATION

Gayatri Vidya Parishad college of Engineering

Bachelor of Computer Science (AIML) - 8.7

Nov 2022 - May 2026

WORK EXPERIENCE

Citi

Software Development Job Simulation on Forage

March 2025 - April 2025

- Completed a job simulation involving hypothetical tasks to improve **Citi's loan management system** and stock market risk reporting
- Created a **state diagram of the loan management** process using the Unified **Modeling Language (UML)**
- Researched potential machine learning systems to assess credit risk and provided recommendations for next steps.
- Used Java to build an internal tool visualizing stock market risk in real-time.

PROJECTS

Payment Web Application

(React.js, Node.js, Express.js, MongoDB)

- Built a secure payment platform with JWT authentication and two-step email OTP verification.
- Implemented P2P transactions, auto-payments, and balance management for better user experience.
- Integrated an AI chatbot for support and transaction history for financial tracking, processing 100+ transactions with 20% fewer failures.

Video Proctoring

- Developed AI-powered video proctoring system for IIT Kharagpur hackathon, securing 1st place.
- Integrated MediaPipe for facial landmark detection and YOLOv4 for real-time object detection
- Designed Tkinter-based GUI for seamless user interaction.
- Implemented real-time tracking of eye movement, head orientation, mouth activity, and prohibited objects to ensure exam integrity

SKILLS

- **Languages:** Java, Python, C, JavaScript, HTML/CSS
- **Frontend :** React.js, Tailwind CSS, Streamlit
- **Backend :** Express.js, Node.js, MongoDB, MySQL
- **Developer Tools :** Git, GitHub, Docker
- **Relevant Courses:** Data Structures, Algorithms, Database Management, Operating System

ACHIEVEMENTS

- Winner of **IIT Kharagpur's Hacktank hackathon** with an innovative AI-powered video proctoring system
- Earned a **1600+ rating** and **3-star rank** on **CodeChef**, demonstrating strong competitive programming and problem-solving skills
- Secured top **1418 rank** in **IICPC's Codefest**, showcasing strong coding and problem-solving skills
- Solved **500+ problems** on **LeetCode**, **CodeChef**, and **TakeUForward**, showcasing strong coding skills.

CERTIFICATIONS

- Obtained **Machine Learning Certification** from **GeeksforGeeks**, mastering algorithms, data preprocessing, and model evaluation