CHARISHMA BOLLINENI

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EDUCATION

Indian Institute Of Information Technology , Sricity　　　　　　　　　　　　　　　　　　7.622/10
Computer Science and Engineering　　　　　　　　　　　　　　　　　　　　　　　　　　*2022 - 2026*

TECHNICAL SKILLS

Languages: C++, Python, Java, SQL, JavaScript, TypeScript
Full Stack Development: HTML, CSS, Bootstrap, TailwindCSS, Node.js, RESTApi, MongoDB, Redis, Postgres, JWT
Libraries & Tools: React, Material UI, Redux, AWS, Docker, GitHub, Matlab, Postman, Linux, Git, Jenkins, Firebase
Course work: DBMS, OOPS, Operating Systems, System Design, Computer Networks, Data Structures, Algorithms

WORK EXPERIENCE

Software Developer Intern
SimplifyTech, Maharashtra, India　　　　　　　　　　　　　　　　　　*November 2024 - December 2024*
- Translated **Figma** designs into pixel-perfect, responsive user interfaces using **Next.js**, **Redux**, **Material UI**, **React.js**, and **TypeScript**, improving *UI/UX* consistency by **35%**.
- Created **RESTful** APIs to ensure secure and efficient communication between frontend and backend, resulting in a **25%** reduction in **data retrieval** times
- Refactored code and fixed bugs, implemented best practices to improve **system performance** by **20%**.

Software Developer Intern
Vils.ai, Hyderabad, India　　　　　　　　　　　　　　　　　　　　*September 2024 - October 2024*
- Led the frontend development of an **online proctoring skills assessment platform** using **React**, **Redux** and **TypeScript**, ensuring **100%** responsiveness across devices.
- Developed **10+ reusable components with TypeScript**, improving scalability and reducing development time.
- **Increased test coverage to 90%**, enhancing code reliability and reducing production bugs by **20%**.

Research Intern
ISRO, AndhraPradesh, India　　　　　　　　　　　　　　　　　　　　　*June 2024 - July 2024*
- Developing algorithms using **CNN techniques**, **improving image quality for satellite** imagery by 15%.
- Ensuring accuracy of images by **testing and validating** models on **2,000 images**, increasing clarity and precision.
- Training models on **1,500 datasets**, applying the improved algorithms to **Chandrayaan-2** sample data, enabling detailed and accurate lunar surface analysis.

PROJECTS

- **CyberTea v1.0 & v2.0** | React, Nodejs, TypeScript, Vite, Eslint, MongoDB　　　　GitHub　　Live Demo
  - Led the development of cutting-edge **cybersecurity workshop** website incorporating key components.
  - Implemented robust security protocols, resulting in a **40% reduction** in cyber threats and vulnerabilities.
  - Enhanced website security with **advanced encryption techniques** for industry-standard compliance
- **ParkDynamiX** | Java, DBMS (MySQL), Java Swing, API, Git　　　　　　　　　　　　　　　　GitHub
  - Developed a Java-based **parking** management system, optimizing allocation and reducing congestion by 30%.
  - Implemented automated parking assignment, improving efficiency by processing **500+ transactions** daily.
  - Enhanced operational efficiency with **record-keeping**, **fee calculation** and **billing features**.
- **Face-Recognition-for-Attendance-Systems** | OpenCV, NumPy, TensorFlow, Raspberry Pi　　GitHub
  - Developed **face recognition** system using the **Haar Cascade** algorithm, achieving **95% accuracy**.
  - Managed the end-to-end process from image capture to testing, ensuring system reliability.
  - Developed key components including 'generateimages.py', 'createdataandlabel.py', 'model.py' & 'testing.py'.

ACHIEVEMENTS

- Won first place in the Ignite AI Hackathon at Uthkrista Technical Fest 2024, hosted by IIIT Sri City.
- Achieved Top 10 placement in Thryve Digital National Healthcare Hackathon 2023.
- Achieved Top 1% ranking in GCCP Cloud Campaign 2024, recognized for excellence in Google Cloud technologies.

POSITIONS OF RESPONSIBILITY

- **Placement Coordinator** in IIIT Sricity, Managing placement opportunities and fostering industry connections.
- **Technical Team Member** in Abhisarga Annual Fest, IIIT Sricity developing event website and logistics.
- **Tech Lead** in Epoch Club, IIIT Sricity managing team of 6 members and working on live industrial projects.