Amritanshu Tripathy

Amrit-codes | Amritanshu | amritanshu@amritcodes.xyz | +91 78423 47710

SUMMARY

Enthusiastic developer with hands-on experience in web development and Linux kernel modules. Passionate about operating systems and homelabs, eager to apply technical expertise and creativity to drive innovative and impactful projects.

WORK EXPERIENCE

Dreadnought Robotics - Management   Aug 2023 - Present

Led the development, enhancement, and maintenance of the website for Dreadnaught Robotics, ensuring a user-friendly experience, implementing new features, and optimizing performance and security. Collaborated with the team to update content regularly and integrate feedback to continually improve the site's functionality and design.

Linux Club - Technical   Jan 2023 - Present

– Designed and developed the user interface for the LUG VITC Android app, enhancing user experience and visual appeal.
– Directed the front-end development for the PASSWORD - CTF event website, carefully designing the user interface to provide a smooth and engaging experience by utilizing modern web technologies.

SKILLS

Languages	C, C++, Java, Python, Common Lisp, Elisp, Lua, Bash, JavaScript, HTML, CSS, Rust, Haskell
Tools	Docker, Flask, OpenCV, OpenGL, Machine Learing, VIM, Emacs, Linux, DSA, raylib, manim, LaTeX, groff, NumPY, Pandas

PROJECTS

sMile

Developed and launched "sMile," a dynamic platform designed to connect volunteers with companies interested in their services. The website features a responsive design and robust functionality built with PHP. This project won first prize at the WebDex Hackathon 2024.

Motion Capture

Wrote a bash script to detect motion form any provided input video using FFMPEG and by observing the displacement between subsequent frames.

TrusTorch.ext

Crafted a Google Chrome extension to identify malicious reviews linked to user search queries. Enhances browsing security by flagging potentially harmful content, ensuring a safer online experience.

Linux Kernel

Engineered a custom Linux kernel tailored to optimize performance on specific devices enhancing operational efficiency.

EXTRA-CURRICULAR ACTIVITIES

VITeach

At Viteach, I contributed to empowering underprivileged students by assisting them in realizing their academic aspirations. Providing mentorship and guidance, I played a pivotal role in supporting these students on their journey to pursue higher education and achieve their dreams.

Humanoid X

Conducted training sessions on design software including Canva and Figma for new recruits, equipping them with essential skills to excel in graphic and interface design.

EDUCATION

2022 - 2026	Bachelor's Degree at **Vellore Institute of Technology**	(GPA: 8.03/10.0)
2022	Class 12th CBSE Board	(90%)
2020	Class 10th CBSE Board	(93%)