Abhinav Jha

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EDUCATION

2022 - 2026	**B.Tech in Computer Science** at Vellore Institute of Technology, Vellore	(CGPA: 9.11)
2022	**Class 12th** at Raisoni Vidyaniketan [**C.B.S.E**]	(95.6%)
2020	**Class 10th** at Narayana Vidyalayam [**C.B.S.E**]	(95.8%)

WORK EXPERIENCE

Software Engineer - Xlancr   August 2024 - Present

– Developed the company's full-stack website using Next.js, React.js, ShadCN, and Tailwind CSS, ensuring a responsive, user-friendly interface and integrating data fetching via REST APIs.

– Collaborated with designers and other developers to implement seamless UI/UX and integrate APIs efficiently.

Software and Autonomous Engineer - Team RoverX   April 2023 - March 2024

– Designed and implemented a custom robust search planning algorithm using ROS2 in Python, serving as the global planner for the rover's autonomous system, and simulated it in Rviz and Gazebo.

– Engineered software systems for the rover using ROS2 in Python, enhancing operational efficiency while collaborating within a 20-member team to manage project timelines and facilitate cross-functional communication.

PROJECTS

Custom Search Planning Algorithm   Link

Implementation of a custom search planner and straight line planner for autonomous robots developed using ROS2 in python.

URL shortening service in Go   Link

Built a URL shortener service in Go with Redis and Docker, implementing IP-based rate limiting and security measures to prevent DDoS attacks.

Custom Unix-like Shell in Go   Link

Built a shell using Golang's os and exec packages, supporting command execution, built-in commands (cd, exit), and dynamic prompts.

Gitlio   Link

Developed an app that converts a GitHub username into a professional-looking developer portfolio, showcasing repositories, contributions, and customizable details.

TECHNICAL SKILLS

Languages:	Java, Golang, TypeScript, Python
Frameworks / Libraries:	NextJs, ReactJs,NodeJs, Tailwindcss, ROS, ROS2
Deployment / Tools:	Git, GitHub, Linux

ACHIEVEMENTS

– Received a Certificate of Merit from VIT for excellence in academic performance. Link

– Secured a spot as a member of roverx in International Rover Challenge 2024 organised by SPROS , held in Coimbatore. Link