Pentapati Sri Vidya

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INTERESTS

Web development, Data Structure and Algorithm, Software development

EDUCATION

2020 - Present	Int. M.Tech 4th Year at **Indian Institute of Technology, Roorkee**	(CGPA: 8.748)
2019	Intermediate (Class XII) at **FIITJEE Junior College (BIEAP)**	(CGPA: 9.87)
2017	Matriculate (Class X) at **The Sun School (AP SSC)**	(CGPA: 10.000)

PROJECTS

Blogging Website Mar 2024 - April 2024

Developed a serverless blogging platform akin to Medium with Cloudflare Workers and Hono framework, using Prisma for PostgreSQL, Zod for validation, JWT for authentication, and React with Tailwind CSS for a responsive UI.

Optimizing Fire Station Locations for Rapid Response March 2024

I tackled a site selection project for fire stations, employing the SIMPLEX LP algorithm in MS Excel. This involved optimizing for cost while factoring in the response time from fire stations as a critical constraint.

Portfolio website Feb 2024

Developed a personal portfolio website using React and Tailwind CSS to showcase projects, skills, and experience. Implemented responsive design for optimal viewing on various devices. Integrated animations and transitions for a dynamic user experience.

Wallet Web Application Jan 2024 - Feb 2024

Developed a Paytm wallet-like website, Solar Secure, utilizing the MERN stack (MongoDB, Express.js, React, and Node.js), with Tailwind CSS for styling and JWT for secure authentication. Implemented Zod for input validation and Mongoose for MongoDB object modelling. The platform facilitates user management and transaction processing.

Geophysical Field Training Dec 2022 - Jan 2023

Participated in field training at the Himalayan frontal thrust, collecting and analyzing subsurface data. Contributed to project success through collaboration and resource management with geophysicists and geologists.

SKILLS

Programming Languages	C++, HTML, Python, CSS, JavaScript, TypeScript, Node.js, Matlab
Framework and Databases	React.js, Express.js, Hono.js, Tailwind CSS, Prisma, MongoDB, PostgreSQL
Tools and Platforms	Git, GitHub, Microsoft Excel, Microsoft PowerPoint, Photoshop, Cloudflare, Seisan Explorer, SeisImager/2D, Jupyter Notebooks, AWS
Software Packages	RES2DINV/RES3DINV, Adobe Illustrator, Figma, Photoshop
Additional Courses	Computer Programming, Signal Processing, Image Processing, Macro and Microeconomics, Renewable Energy Sources Development Technology
Languages Known	English (SRW), Hindi (SRW), Telugu (SRW)

POSITIONS OF RESPONSIBILITY (POR)

Member, Institute Alumni Relations Cell (IARC) May 2021 - April 2024

I improved the connections between alumni and the institution, coordinated engagement events such as Raionzo and Alumni Career Talks, and contributed to the design aspects as a club member.

Volunteer, Primary Education Cell, National Service Scheme (NSS) Dec 2020 - July 2021

Provided free coaching to students in rural areas and monitored their progress for academic improvement.

REFERENCES

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