

Aamod Vardhan Pandey

Web Developer

Details

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Lucknow
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Links

[My Portfolio](#)

[Github](#)

[LinkedIn](#)

Skills

Web Development: HTML, CSS, JavaScript, React, Node.js, Express.js, MongoDB

Web Design: An eye for crafting innovative UIs

Algorithms: Design and Optimisation

Version Control: Git, GitHub

Communication: Effective written and verbal communication

Learning: Staying up-to-date with new technologies, Fast learning and adaptability

Education

Sant Longowal Institute of Engineering and Technology , Bachelor in Engineering in Computer Science

Present 📍 Longowal

Rani Laxmi Bai Memorial School (R.L.B.)

Apr 2017 – Mar 2019 📍 Lucknow

Projects

Campified

Developed Campified, a **full-stack** web app for discovering and sharing camping sites, featuring a modern, handcrafted UI/UX for an intriguing user experience, it is built using Node.js and Express.js on the backend, MongoDB for data storage, and EJS templating for dynamic rendering on the client-side.

1. Implemented a **user-centric design** for Campified, with a clear focus on UX, blending curated design choices into the app. Having knowledge of the colour theory and a knack for creativity, invested in building a professional-grade UI, making sure all the components are loyal to the theme and purpose of the app. Cluster map built using Mapbox eases navigation for users while Bootstrap and MUI CSS were used for stylings. Hence, the application feels intuitive and inviting to use.

2. Built a **secure and efficient backend**: Strengthened security with use of Helmet.js and HTML sanitation, **joi** for data validation, with Passport.js and Express-Session collaboratively establishing secure user logons, user permissions and password hashing. Implemented email verification using JSON Web Token and Nodemailer to prevent spam, and ensured more security through the use of content security policy with defined cross-origin URLs.

3. Added **innovative functionalities**, which include efficient $O(\log N)$ database queries for both backward & forward pagination by using a descending index on MongoDB objects and assigning a unique string to each navigated page, enabling reliable pagination with functional page refreshes, with the code written from scratch. Users can edit their campground location which recomputes geo-coordinates via Mapbox.

4. **Personalised** the app for users, allowing them to fetch their campgrounds by clicking on a 'My Campgrounds' link in the navigation panel, with each campground entry showing its age. Username is shown on the nav-bar.

5. Optimised **image management**, utilising **Cloudinary** for cloud-based image hosting, allowing for storage, viewing, and deletion of images for each campground. **Multer** parses image uploads and governs the number, size and type of uploaded files.

Site is regularly maintained for best performance.

Time Lord's Memory

- Creative and Challenging Memory Game: Designed and developed "Time Lord's Memory," a fun memory game, with visually appealing design and engaging gameplay. Manually designed the colour scheme and built custom graphics for an engaging UX.

Hobbies

1. Philosophy: I enjoy reading and contemplating philosophical ideas in my free time, particularly the works of Nietzsche.

2. Drawing: I was passionate for drawing in my school and was known for my artistic skills.

3. Reading: I enjoy reading novels and science books to expand my knowledge and perspective.

4. Singing: Music amazes me. Me and my mother usually sing together. Kishore Da is my favorite and a source of inspiration for me.

- Utilised jQuery and jQueryUI libraries to build the game's core which includes the game progression algorithms alongwith custom animations, scorekeeping, sound effects. Having coded the game from scratch, employed asynchronous functions with custom timeout function to create a seamless gaming experience.
- Responsive and adaptable design which scales on all devices, including custom modal for game instructions and info.
- Continuously levelled the UX through updates and optimisations, which expanded my expertise with CSS, JavaScript, and third-party libraries and plugins.

Colour Picker App

Utilising React, I built 'Colours App' that allows users to use and create colour palettes for their web designs. Featuring an eye-pleasing and sleek interface which draws attention, the project employs React Router for front-end routing, Chroma.js for colour conversion and dynamic text luminance. Also designed customised components such as a slider for changing colour intensity and a dropdown for switching colour formats which make the application stand out. This level of customisation involved making extensive use of package documentation and browser DevTools. Worked with React class components and adhered to modern coding and design practices. Making its look and feel top-notch, I made sure that using the app is worthwhile on every device.

Courses Taken

Colt Steele's and Mosh Hamedani's courses helped me learn the web technologies I use.

Academic and Creative Accomplishments

Actively participated in competitive programming contests since 2021, honing my skills and solved 196 problems involving algorithm design and data structures. I am currently active on Leetcode to further strengthen my skills.

As a curious and passionate learner, I have consistently demonstrated my intellectual abilities in various areas. With an excellent command over the English language and a quick grasp of concepts, I received praise from teachers throughout my academic career. My aptitude in science earned me multiple wins in quizzes and competitions, including many in the Regional Science City, Lucknow.

I cleared JEE 2019 with top 6% without any tutoring and became qualified to appear for the SSB for NAVY Technical entry based on my JEE Main score, where I cleared Stage-1 of the selection process and stayed for the 5-day period.

My interest in computers and technology stems from my childhood and the same led me to develop a deep understanding of programming and software development.

In addition to my academic achievements, I am also an artist, having won awards and recognition in several competitions, including a painting of Sachin Tendulkar published in Navbharat Times in 2013.

I am ready to contribute the best of my skills as a web/software developer in your esteemed organisation.