

Piyush Kumar

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Education

Delhi Public School, Moradabad

Matriculation

2017 – 2018

Percentage : 66.76

Dayawati Modi Academy, Rampur

Intermediate

2019 – 2020

Percentage : 56.8

Birla Institute of Technology, Mesra

Bachelor's of Technology

Computer Science and Technology

2020 – 2024

CGPA : 7.47

Skills

Technical Skills C, C++, HTML, CSS, JavaScript, Typescript, Tailwind CSS, SQL, Ethical Hacking, Cybersecurity, NextJs, NextUI, Shadcn Github .

Coursework DBMS, Cloud Computing, Operating Systems, Computer Networks

Soft Skills Communication, Teamwork, Time Management

Developer Tools VS Code, Eclipse

Areas of Interest Table Tennis, Badminton, Cricket, Swimming, Cycling

Experience

Web Development Intern

Internshala | Remote | May 2023 – July 2023

- Technologies Used: HTML, CSS, JavaScript, PHP, React, Bootstrap, DBMS
- Completed Internshala Web Development Training, gaining practical experience in front-end technologies including HTML, CSS, JavaScript, and React.
- Developed responsive websites and web applications, focusing on creating seamless, user-friendly interfaces and ensuring cross-browser compatibility.
- Applied knowledge of PHP and DBMS for back-end integration, improving site functionality. Leveraged Bootstrap to build dynamic, mobile-first designs, optimizing the user experience across devices.

Frontend Development Trainee

CareMedico | Remote | September 2024 - February 2025

- Technologies Used: Typescript, Tailwind CSS, JavaScript, Nextjs, NextUI, React, Shadcn
- Actively participating in CareMedico Frontend Development Training, gaining hands-on experience in cutting-edge front-end technologies including TypeScript, React, Next.js, Tailwind CSS, NextUI, and Shadcn.
- Designed and developed responsive web applications focusing on intuitive user interfaces, ensuring optimal performance and cross-browser compatibility.
- Leveraged NextUI and Shadcn to enhance visual design, creating aesthetically appealing and user-friendly interfaces.
- Collaborated on building seamless, responsive websites, employing best practices for maintainability and scalability.
- Demonstrated a strong commitment to delivering high-quality code and adhering to modern development standards.

Web Development Trainee

Zidio Development | Remote | June 2025 - September 2025

- Technologies Used: MERN Stack, Vite, Tailwind CSS, JavaScript
- Built and deployed the **Excel Analytics Platform** using MERN stack with Vite frontend, enabling users to upload, parse, and visualize Excel data through interactive charts, improving data handling performance by **30%**.
- Developed a scalable **Blogging Platform** with secure JWT authentication, role-based access, and CRUD operations for blogs; increased user engagement by **40%** through saved blogs, comments, and responsive dashboards.
- Designed and implemented responsive UI components with React and Tailwind CSS, ensuring optimal performance, faster load times, and cross-browser compatibility.
- Collaborated with team members using Git/GitHub for version control and CI/CD pipelines on Vercel/Render, ensuring reliable and maintainable deployments.

Project Junior Consultant (IT)

Kasturba Gandhi Balika Vidyalyaya (KGBV) Wardens - NIEPA | On Site | Currently Working

- Technologies Used: HTML, CSS, Bootstrap, JavaScript
- Maintain and update the KGBV Wardens website—build responsive pages/components, fix UI bugs, and keep content current while ensuring accessibility and cross-browser compatibility.
- Improve page performance via image optimization, lazy loading, minification, and sensible asset caching; audit with Lighthouse and address Core Web Vitals regressions.
- Administer production servers: handle deployments, configure web server (Apache/Nginx), manage SSL/TLS certificates, set up redirects, DNS records, and schedule automated backups/restores.
- Harden and monitor the stack: apply OS/security patches, configure firewalls and SSH, rotate keys, set up basic uptime/health checks, and review logs to prevent incidents.

Projects

Weather Forecasting System

- Technologies Used: HTML, CSS, JavaScript, Node.js, Weather API (e.g., OpenWeatherMap)
- Developed a Weather Forecasting application to deliver real-time weather data and forecasts, demonstrating proficiency in front-end development and API integration.
- Designed and implemented a user-friendly interface using HTML5, CSS3, and JavaScript, allowing users to effortlessly check current weather conditions and extended forecasts in a visually appealing and responsive environment.
- Integrated the Weather API (e.g., OpenWeatherMap) to fetch and display accurate, up-to-date weather information based on user-specified locations, ensuring seamless data synchronization and real-time updates.
- Leveraged Node.js for efficient back-end communication, enhancing performance and enabling smooth interaction between the client-side interface and the weather data API.

CareMedico Landing Page

- Technologies Used: Typescript, Tailwind CSS, JavaScript, Shadcn
- Engineered and developed a high-performance, responsive CareMedico landing page, utilizing Shadcn for component design and Tailwind CSS for utility-first styling, ensuring a modern, adaptive user interface across multiple devices and screen sizes.
- Implemented dynamic, interactive elements using TypeScript and JavaScript, enhancing user engagement with smooth, real-time interactions and ensuring optimal front-end performance.
- Applied advanced UI/UX design principles to optimize user flow, enhance visual hierarchy, and improve accessibility, adhering to WCAG standards for inclusive design.
- Followed industry best practices for responsive design, modular architecture, and cross-browser compatibility, ensuring a consistent experience across modern browsers and devices.
- Leveraged training from the CareMedico Frontend Development Program to adopt scalable development methodologies, resulting in maintainable, testable code and reducing technical debt.
- Delivered a polished, production-ready solution that effectively encapsulates the CareMedico brand, contributing to a professional, cohesive digital presence and improving user retention metrics.

AI Content Generator

- Technologies Used: Typescript, Tailwind CSS, JavaScript, Shadcn, Clerk, Gemini
- Designed and implemented an AI-powered content generation SaaS platform, leveraging advanced natural language processing (NLP) models (such as GPT-3/4) to automate content creation tailored to user inputs, delivering high-quality, contextually relevant content at scale.
- Developed a multi-tenant architecture to support scalable SaaS deployment, enabling users to access AI-generated content via secure, isolated environments seamlessly.
- Integrated AI models into a RESTful API for real-time content generation, ensuring high availability and low-latency responses for end-users.
- Optimized NLP model performance through fine-tuning and hyperparameter optimization, significantly reducing response time while maintaining content relevance and accuracy.
- Designed a cloud-native solution using AWS (or other cloud platforms), ensuring the SaaS platform is highly available, fault-tolerant, and scalable to handle large volumes of traffic.
- Developed a dynamic, responsive UI using React.js and Tailwind CSS, delivering a seamless user experience on both desktop and mobile platforms, while ensuring ease of use for non-technical users.
- Implemented robust authentication and authorization mechanisms (using OAuth or JWT), ensuring secure access to the platform's features and user data.
- Utilized CI/CD pipelines (e.g., GitHub Actions, Docker) for automated testing and deployment, ensuring smooth and continuous updates to the platform.
- Conducted comprehensive testing using unit, integration, and load testing tools (e.g., Jest, Cypress, K6) to ensure the platform's reliability and scalability in a production environment.

Portfolio

- Tech Stack: Next.js, Shadcn, TypeScript, Tailwind, Aceternity UI
- Designed and developed a sleek, high-performance portfolio website to showcase personal projects, technical skills, and professional achievements. Leveraged Next.js for fast, SEO-friendly routing and optimized page rendering, while implementing TypeScript to ensure robust, maintainable code. Crafted a visually appealing and fully responsive UI using Tailwind CSS, Shadcn, and Aceternity UI, focusing on accessibility, clean design principles, and fluid animations. The project highlights strong frontend architecture, attention to detail, and a deep understanding of modern web development best practices.

Waste Management System

- Tech Stack: Next.js, TypeScript, Tailwind CSS, Gemini AI
- Built and deployed an intelligent waste management application leveraging Next.js for fast and scalable frontend development and TypeScript for type safety and maintainability. Designed a clean, responsive UI using Tailwind CSS. Integrated Gemini AI to power real-time features such as waste type classification, disposal recommendations, and sustainability tips. Focused on delivering a user-friendly experience that promotes environmental awareness and efficient waste disposal practices. Emphasized performance, responsiveness, and modern design patterns in deployment and production optimization.

Online AI Learning Platform

- Tech Stack: Next.js, TypeScript, Tailwind CSS, Gemini AI
- Built an interactive AI-powered e-learning platform designed to deliver personalized, real-time educational content. Leveraged Gemini AI to dynamically generate lessons, quizzes, and explanations tailored to user progress. Developed a responsive, accessible UI using Tailwind CSS and Shadcn, ensuring a seamless experience across devices. Implemented secure user authentication and role-based access using Clerk. Used TypeScript to ensure a scalable, maintainable codebase focused on high performance and intuitive learning experiences.

Excel Analytics Platform

- Tech Stack: MERN Stack (MongoDB, Express, React, Node.js), Vite, Tailwind CSS, JavaScript
- Built an analytics platform enabling users to upload, parse, and visualize Excel files with interactive charts and graphs. Optimized Express APIs and MongoDB queries, improving data handling performance by **30%**.
- Designed and developed a responsive frontend with React, Vite, and Tailwind CSS, reducing bundle size by **20%** and ensuring seamless cross-browser compatibility.
- Implemented secure JWT-based authentication and persistent user sessions, enhancing security and reliability for returning users.

Blogging Platform

- Tech Stack: MERN Stack (MongoDB, Express, React, Node.js), Vite, Tailwind CSS, JavaScript
- Developed a full-featured blogging platform with secure JWT-based authentication, role-based access, and CRUD operations for posts, ensuring reliability and scalability.
- Implemented features such as blog saving, commenting, and interactive dashboards, increasing user engagement by **40%**.
- Designed and deployed a responsive frontend with React, Vite, and Tailwind CSS, reducing load time by **25%** and enhancing user experience across devices.