

Vishwadeep Singh

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Summary:

I have 4+ years of experience in HTML, CSS, JavaScript, React.js, PHP, and Node.js, with a strong background in both frontend and backend development. Leveraging my expertise, I have successfully led the design, development, and maintenance of web applications known for delivering exceptional user experiences

Technical Skills:

- **Backend Languages:** Node.js (Express, Next.js) for JavaScript backends and server-side rendering; PHP (Laravel, CodeIgniter) for MVC web applications
- **Frontend Languages:** JavaScript for dynamic behavior; HTML5/CSS for structure and styling; React.js for component-based UIs; Bootstrap for responsive design.
- **Version Control:** Git for tracking code changes; GitHub for hosting repositories and collaboration.
- **Database:** PostgreSQL and MySQL for relational data storage and ACID-compliant transactions.
- **Server Tools:** AWS EC2 for scalable virtual servers; AWS Lambda for serverless function execution

Professional Experience:

Web Developer:

Exhibition India Group.

Dec 2021 - Present

Full Stack Developer (PHP, Node.js, React.js):

Delhi

- Use Redis for in-memory caching, session/token storage (including JWT blacklists), and pub/sub messaging to coordinate real-time updates across clustered servers
- Implement stateless authentication with JWTs (short-lived access tokens + longer-lived refresh tokens stored in Redis) and Express middleware to verify and revoke tokens,
- Deploy multiple Express.js API + WebSocket servers behind a load balancer (with health checks and optional sticky sessions) to handle HTTP(S) requests and persistent WebSocket connections at scale.
- Build frontend pages in Next.js (for SEO-friendly, server-rendered routes) and React.js (for client-only dashboards and chat UIs), both interacting with the Express API via AJAX and WebSocket clients for live updates
- Persist relational data (users, cars, reviews) in PostgreSQL with proper indexing and connection pooling (e.g., PgBouncer), while Redis handles transient data and cross-instance event broadcasting.

SRDV Pvt. Ltd.

Sep 2020 -Sep 2021

Web Developer(PHP)

Noida

- **AWS-Hosted MySQL & Server:** MySQL runs on AWS (RDS/EC2) for reliable, auto-backed relational storage, while AWS servers (EC2/Elastic Beanstalk) provide scalable compute for PHP/Node.js backends.
- **PHP & Frameworks:** PHP powers dynamic logic; Laravel uses MVC, Eloquent ORM, Blade templating, and Artisan for rapid, secure development, whereas

CodeIgniter offers a lightweight MVC structure with minimal configuration and high performance

- **HTML Structure:** HTML defines semantic page layouts—headings, paragraphs, forms—forming the foundation that both CSS and Bootstrap style
- **CSS & Bootstrap:** CSS customizes colors, typography, and layouts; Bootstrap adds responsive grids and prebuilt components (navbars, modals) for mobile-first design and rapid UI assembly
- **CSRF Tokens & JavaScript Event Loop:** CSRF tokens embed unique, server-generated values in forms to prevent unauthorized cross-site requests, while JavaScript's event loop—using a single thread with callbacks, promises, and async/await—manages non-blocking I/O and smooth asynchronous execution.

SDLC Stages:

- **Requirement Analysis & Design:** Gather and document functional/non-functional requirements (using Jira/Confluence), produce SRS, HLD/LLD with UML diagrams, ERDs, and API contracts (OpenAPI).
- **Implementation & Version Control:** Develop modular, MVC-based code (Laravel/Node.js) following coding standards (PSR/PEP8), manage via Git workflows (feature branches, PRs), and run CI pipelines (Jenkins/GitHub Actions) for linting and unit tests.
- **Testing, Deployment & Maintenance:** Execute automated tests (JUnit, PHPUnit, Jest, Selenium), perform static analysis (SonarQube), provision infrastructure as code (Terraform/CloudFormation on AWS), deploy via Docker/Kubernetes with blue/green or canary strategies, and monitor/patch using Prometheus, Grafana, and ELK.

CERTIFICATIONS:

- **Full Stack Node.js & DevOps (Ducat):** Gained expertise in building scalable Node.js backends, RESTful APIs, and implementing DevOps practices like CI/CD, containerization (Docker), and deployment automation
- **Python (Simplilearn, 2023):** Mastered Python fundamentals, scripting, and object-oriented programming, along with libraries such as Pandas and NumPy for data manipulation and automation tasks
- **Business Analytics (Simplilearn, Aug 2022):** Learned data analysis techniques, statistical modeling, and visualization tools (e.g., Tableau, Power BI) to derive actionable business insights from datasets

Relevant Coursework:

- Data Science with Python
- Algorithms and Data Structures
- Business Analytics

EDUCATION:

- Master's in Computer Science (2018–2021)
Institute of Engineering and Technology
- Diploma in Information Technology (2017–2018)
Institute of Basic Science
- Bachelor's in Computer Science (2014–2017)
Dau Dayal Institute of Vocational Education, Agra