

Avinash Singh

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SUMMARY

Experienced front-end developer with deep expertise in React, Typescript, creating dynamic, responsive, and high-performance web applications. Skilled in optimizing user experiences and developing scalable solutions. Proven ability to collaborate with cross-functional teams to deliver projects that boost user engagement and meet business objectives.

SKILLS

Programming Languages: JavaScript, TypeScript, HTML

Web Development Framework: React, NodeJs, Wordpress, Power BI

Styling: CSS, Tailwind CSS, Material UI, Bootstrap

Version Control: Git

Database: MongoDB

RELEVANT EXPERIENCE

BI Hub Solution

September 2024 – Present

Software Development Engineer – Remote

- Developing custom charts in Power BI using JavaScript and TypeScript to enhance data visualization.
- Implemented interactive Power BI visuals with dynamic data updates using D3.js and Power BI Visuals API.
- Worked On website development using wordpress.
- Implemented RESTful APIs to enhance frontend and backend integration, boosting system performance and reliability
- Worked closely with the UX/UI team to implement responsive designs and ensure a positive user experience.
- Conducted unit testing and debugging to ensure the stability and reliability of software applications.
- Created landing pages for companies website.

Projects Worked On: Load testing, Tableau to Power bi conversion, Decision Pulse AI , Pulse QA its front end.

Pulse QA:

- **Record & Playback:** Enabled easy test creation through intuitive record-and-playback functionality, reducing manual scripting effort.
- **Cross-Platform Testing:** Supported test case creation and execution across multiple platforms and devices to ensure comprehensive coverage.
- **AI-Driven Test Stability:** Leveraged AI to enhance test resilience by dynamically adapting to UI changes and reducing flaky tests.
- **Real-Time Execution Monitoring:** AI actively tracked test runs, identified failures instantly, and suggested corrective actions during execution.
- **Parallel Test Execution:** Enabled simultaneous execution of multiple test cases, significantly reducing total test cycle time.
- **CI/CD Integration:** Integrated seamlessly with CI/CD pipelines to automate end-to-end testing during development and deployment.

Load Testing:

- **Tool Usage:** Used JMeter, k6, or Locust for simulating concurrent user access to Power BI reports.
- **Custom Load Profiles:** Designed load profiles to simulate realistic traffic patterns (spike, soak, stress tests).
- **Power BI API Monitoring:** Monitored API responses for DAX queries and filter application times.
- **Performance Bottleneck Identification:** Identified slow-loading visuals or heavy DAX queries causing delays.
- **Report Load Breakdown:** Segregated performance metrics for datasets, visuals, slicers, bookmarks.

Tableau to Power bi conversion:

- **Field Mapping & Schema Validation:** Ensured accurate data model and measure mapping between Tableau and Power BI.

- **Calculated Fields Migration:** Converted Tableau calculated fields (LOD expressions, etc.) to Power BI DAX equivalents.
- **Custom Visuals Recreation:** Rebuilt Tableau visuals using custom visuals or Power BI's native ones (e.g., donut chart, tree map).
- **Performance Optimization:** Optimized Power BI dashboards post-conversion for faster performance.
- **Data Source Adaptation:** Shifted Tableau data sources (e.g., extracts, live connections) to Power BI gateways.

Decision Pulse AI:

- **Natural Language Querying:** Implemented chat or prompt-based interface to generate charts or insights from data using NLP.
- **Self-Service Dashboarding:** Enabled drag-and-drop dashboard creation without developer intervention.
- **Auto Data Insights:** Integrated ML models to auto-detect anomalies, trends, and outliers in datasets.
- **Custom KPI Recommendations:** Suggested relevant KPIs and visualizations based on dataset schema and business domain.
- **Embedded Analytics:** Offered iFrame or SDK for embedding dashboards into web apps or portals.

Grapple Tech

Oct 2024 – Sep 2024

Software Engineer – Remote

- Built a personal portfolio website using React.js with a responsive, mobile-first design.
- Showcased detailed project descriptions with live demo and GitHub links.
- Added a contact form with EmailJS for direct communication with employers.

Ramy Infotech

April 2021 – Nov 2021

Software Engineer – Noida, Uttar Pradesh

- Implemented responsive web design to ensure applications work well on various devices and screen sizes.
- Optimized frontend performance by improving loading times and reducing resource consumption.
- Building responsive and interactive user interfaces using HTML, CSS, and JavaScript.
- Designing APIs for communication between frontend and backend systems.

Personal Projects

Weather App

- Developed a responsive weather application using React.js for real-time weather updates.
- Integrated with an external weather API for accurate data retrieval.
- Implemented error handling for invalid searches, API failures, and missing data.
- Designed a mobile-first, responsive UI using CSS for cross-device compatibility
- Added intuitive features like search suggestions, location-based weather, and unit toggling.

Currency Converter

- Built an interactive currency converter using React.js for multi-currency conversions.
- Integrated a real-time exchange rate API for accurate and dynamic currency conversions.
- Implemented input validation to ensure valid numbers and currency selections.
- Designed a fully responsive UI using CSS and Flexbox for compatibility across devices.

Doctor Management System

- Centralized Server Using Express Servers in NodeJS.
- ES6 implementation.
- Postman Documentation.
- Front End Development Using ReactJS.
- Twilio and Teams implementation with Node Js.
- Utilized Twilio and Teams implementation with Node.js for frontend aspects.

EDUCATION

Lovely Professional University – Phagwara, Punjab

2017 - 2021

Bachelor of Technology in Computer Science and Engineering