**SHILPI SINGH**

Hamilton, ON | (226) 899 9380 | [Shilpi2101191@gmail.com](mailto:Shilpi2101191@gmail.com) | www.linkedin.com/in/shilpisingh064

**PROFESSIONAL SUMMARY**

Full Stack Developer with 9 years of experience delivering scalable, responsive web applications using **React JS, Node JS, Redux, Next JS, JavaScript, MySQL, and Magento**. Skilled in **OTT development**, including **DRM, HLS/DASH streaming**, and **performance testing with Grafana K6**. Experienced across e-commerce, education, and media domains. Strong grasp of the full SDLC, with a focus on clean code, best practices, and exceeding client expectations.

**SKILLS**

* **Frontend:** React.js, Redux (Thunk), Context API, React Router, HTML5, CSS3, CSS pre-processor - SASS/LESS, JavaScript (ES6+), TypeScript, Bootstrap, Tailwind CSS, Material UI, AJAX, Axios, JSON.
* **Backend:** Node.js, Express.js, Nest.js, REST APIs, MongoDB, MySQL, Authentication (JWT)
* **Testing frameworks:** Jest and react testing library.
* **Frameworks & Testing:** Next.js (SSR, SSG, ISR), JEST, React Testing Library, Grafana K6
* **Streaming & Media:** OTT Platforms, Digital Rights Management (Widevine, Fairplay, Playready), HLS, MPEG-DASH
* **Content Management:** Magento 1.x & 2.x, WordPress
* **Performance Optimization:** Code Splitting, Lazy Loading, Debouncing, Virtual DOM, Memorization, Web Worker, SEO Best Practices
* **Tools & Platforms:** Jenkins, Git, GitHub, Jira, Confluence, Sentry, Grafana K6, Figma, Postman, NPM, Webpack, Babel, Google Analytics
* **Project Management:** Agile, Scrum, Jira, Confluence
* Build and Maintain Microsoft Azure CI/CD Pipeline and optimize for rapid deployment and release schedules for project.
* Basic knowledge of AWS and cloud technologies, including EC2, S3, CloudFront, CI/CD pipelines, and modern hosting platforms like AWS Amplify.

**EXPERIENCE**

**Software Developer | NexGen Tech Solutions, Canada | Contract** **07/2024 – Current**

* Developed and deployed a responsive, Scalable, customizable, and secure OTT platform to deliver a hassle-free video experience to user.
* Implemented **GraphQL** to fetch CMS data for OTT applications, reducing API over-fetching and improving query efficiency by 50%.
* Strong expertise in web-based media playback technologies, including **Encrypted Media Extensions (EME)** and **Media Source Extensions (MSE)**. Hands-on experience with media frameworks **HTML5 video (video JS)**
* In-depth knowledge of adaptive streaming protocols like **HLS** and **MPEG-DASH**, with proven experience implementing DRM systems including **Widevine**, **FairPlay**, and **PlayReady** to ensure secure content delivery.
* Designed and executed **browser-based performance tests using Grafana K6**, simulating real user scenarios to validate frontend stability, speed, and responsiveness under load conditions.
* Integrated **Sentry** for real-time error tracking and performance monitoring in production environments, enabling faster debugging and proactive issue resolution.

**Associate Consultant | Tata Consultancy Services, India** **12/2021 – 01/2024**

* Developed and deployed a responsive e-commerce website edible arrangement (https://www.ediblearrangements.com/) using React JS, Redux, JavaScript, HTML, CSS, Node JS resulting in a 30% increase in online sales within the first three months of launch.
* Use Redux to manage the application state and applying middleware redux-thunk.
* Work closely with the product owner and product stakeholders to gather requirements, refine user stories, and translate them into actionable technical tasks.
* Collaborated with UX/UI designers to translate design mockups into functional, responsive interfaces and ensure compliance with web accessibility standards (**WCAG**).
* Led the redesign and optimization of a company's website, resulting in a 60% increase in organic search traffic and a 45% improvement in page load speed.
* Writing and executing unit tests using **JEST** and **React Testing Library**, and end-to-end tests to identify and fix bugs, ensuring the reliability and stability of the application.
* Reviewed code developed by other developers using Azure Pull Requests to ensure coding standards and best practices to deliver high-quality, scalable solutions.

**Senior Software Engineer | Coforge Ltd, India** **01/2020 – 12/2021**

* Worked on an automated candidate background checking and onboarding responsive web application built on React JS, Redux, Redux-Thunk, JavaScript, HTML and CSS.
* Created reusable React component and managed application state with Redux and Redux-Thunk.
* Integrate RESTful APIs and microservices to support front-end functionality facilitate data exchange between the frontend and backend.
* Analyzed business requirements, conducted design discussions with product owner, provided design solutions, implemented, and documented software changes, performed unit testing & supported QA.
* Implemented robust authentication and authorization mechanisms using JWT, ensuring secure access to sensitive information.
* Ensured website accessibility by adhering to WCAG guidelines, using semantic HTML, and implementing ARIA roles, making it accessible to users with disabilities.

**Senior Software Engineer | Chetu India Pvt Ltd, India** **01/2016 – 12/2019**

* Worked on an E- commerce web application vaporbeast (Vaporbeast.com) which is developed in Magneto 1.x & 2.x. The project is based on the Agile model of Software Development.
* Participate in agile project planning and work with product management to plan features and estimate their complexity and timelines.
* Involved in end-to-end development of application from requirement analysis to system study, designing, coding, testing, de-bugging, documentation, and implementation.

**Software Engineer | Vibes Communication Pvt Ltd, India** **12/2014 – 05/2016**

* Worked on various development, enhancement and maintenance activities of PHP web applications using PHP, MYSQL.
* Worked on a real state website where user can search rental property depending on location, budget and other criteria using PHP, JavaScript, HTML, CSS and MySQL.

**EDUCATION**

**Bachelor of Technology, Computer Science, 08/2008 – 05/2012**

**Institute of Technology and Management** – UP, India