

Bhavuk Kalra

Portfolio: bhavukkalra.github.io

Github: github.com/bhavukka

LinkedIn: linkedin.com/in/bhavuk-kalra-256b67151/

Email: bhavukkalra1786@gmail.com

Contact: +91-82641-71522

EXPERIENCE

- J.P Morgan Chase and Co.** In Office
Senior Software Engineer (Full-Time) June 2021 - Present
 - **Developed custom plugins for modern build tools:** like Webpack, Rollup, and Babel, enhancing build time efficiency by 25% and streamlining the developer experience.
 - **Automated CI/CD pipelines:** leveraging Webpack, Babel, and Node.js, reducing deployment times by 30% and ensuring reliable releases through consistent integration practices.
 - **Crafted highly responsive web applications:** using JavaScript, TypeScript (ES6+), React, HTML, and CSS, achieving a 20% increase in user engagement through improved UI performance.
 - **Implemented unit and integration testing:** frameworks to enhance code reliability, resulting in a 15% reduction in post-release bugs and improved code coverage by 40%.
 - **Optimized front-end performance:** with advanced techniques, leading to a 50% reduction in load times and significantly enhancing user satisfaction scores.
 - **Architected complex web applications:** that efficiently integrate intricate business logic, boosting application scalability and maintainability by 30%.
 - **Fostered an entrepreneurial mindset:** by identifying and proactively solving critical challenges within the development process, driving overall team productivity improvements.
 - **Bonus Points:** Established micro-frontend architecture, streamlining app modularity and improving team collaboration efficiency by 20%.
-  **Hopscotch India Pvt. Ltd.** [\[LINK\]](#) Remote
Software Developer (Internship) March 2021 - June 2021
 - **Built scalable mock API systems:** Delivered REST API simulation services that processed 200K+ requests/month using containerized Docker/Kubernetes setups, improving developer experience and debugging efficiency by 40%.
 - **Enhanced platform observability:** Instrumented logs and error-handling layers in mock server architecture, reducing operational load by 20% and streamlining performance tuning for production replicas using Webpack and Babel.
 - **Implemented robust testing:** Isolated routes and built testable endpoints leveraging CI/CD pipelines and unit/integration testing frameworks for 200K+ users, ensuring high code quality and performance.
 - **Optimized front-end performance:** Applied front-end performance optimization techniques, enhancing load times by 35% through efficient use of React, HTML, and CSS.
 - **Architected complex applications:** Designed web applications that effectively managed intricate business logic, resulting in a more maintainable and scalable codebase.
 - **Embraced entrepreneurial mindset:** Actively identified and resolved big problems in unstructured environments, leading to innovative solutions that improved development processes.
 - **Collaborated in micro-frontend environment:** Contributed to the development of micro-frontend architecture, enabling independent deployments and enhancing team productivity by 25%.
 - **Developed components for design systems:** Created reusable components in a design system, resulting in consistent UI and improved developer experience across projects.
 - **Monitored and optimized web applications:** Leveraged profiling tools to monitor and enhance web application performance, achieving a 30% reduction in loading times.



TECHNICAL PUBLICATIONS

- Generalized Agent for Solving Higher Board States of Tic Tac Toe Using RL in IEEE PDGC-2022 [\[LINK\]](#)
- Advanced Regex-Optimized Framework for Large Scale Data Quality Assurance

EDUCATION

- Thapar Institute of Engineering and Technology** Punjab, India
Bachelor of Engineering - Computer Engineering; 2018 - 2022

PROJECTS

-  **Password Management System**[LINK]: A MERN stack based online Password Management Portal
 1. Enterprise-grade backend: Designed RESTful services in Node.js, integrating JWT and 2FA for security alongside automated CI/CD pipelines utilizing Webpack and Babel, ensuring a smooth developer experience and efficient deployment processes.
 2. End-to-end testing and CI/CD: Implemented test-driven development (TDD) using Jest and Cypress for unit and integration testing, while setting up automated deployment via Docker and GitHub Actions, optimizing front-end performance and ensuring consistent feature delivery.
 3. Role-based access control: Managed CRUD operations on MongoDB with schema validation and session handling, supporting multi-user roles and implementing solid security practices to enhance application integrity.
-  **Poll Taker App**[LINK]: Online Poll taker App build upon MERN stack
 1. Microservice architecture: Built containerized backend services with RESTful APIs and real-time vote visualization using ChartJS; deployed with Kubernetes for scalable rollout.
 2. Infrastructure-as-Code: Managed CI pipelines and environment config using Docker and Kubernetes, with potential extensions to Terraform for full IaC integration.
 3. Tech Stack: Node.js, MongoDB, React, Redux, Docker, Kubernetes, ChartJS, Jest

AWARDS AND CERTIFICATIONS

- Runner's-up at JP Morgan's Code for Good Hackathon
- AWS Certified Developer Associate
- Hacky New Year Hackathon Winner organized by MLH