Ashish Tiwari

Software Engineer | Web Developer | MS in Computer Science

Over 7 years of professional work experience developing high-quality, scalable, and robust software & web applications.

✉ ashishktiwari.in@gmail.com   📱 +91 91798 99752   📍 Indore, India   🗔 ashishtiwari.work   in linkedin.com/in/ashishkti

EDUCATION

Master of Science: Computer Science
California State University, Fullerton
08/2022 - 05/2024   *Fullerton, CA, USA*

Bachelor of Engineering: Computer Science
Rajiv Gandhi Technical University, Bhopal
07/2007 - 04/2011   *Bhopal, MP, India*

WORK EXPERIENCE

Web Application Developer
California State University, Fullerton
11/2022 - 04/2024   *Fullerton, CA, USA*
Achievements/Tasks

- Worked on improving and maintaining the university's website using PHP, JavaScript, and Omni CMS.
- Built and updated interactive components with React to enhance user experience and accessibility.
- Collaborated with different departments to roll out mobile-friendly, responsive web designs.
- Helped streamline content updates and deployment processes, making them faster and easier to manage.
- Regularly monitored site performance and made changes that improved load speed and SEO visibility.

Senior Software Engineer
Ntier Infotech
01/2017 - 06/2022   *Indore, MP, India*
Achievements/Tasks

- Built custom CRM dashboards using React and Angular, reducing lead response time by 30% for enterprise clients.
- Delivered high-performance e-commerce sites with React and Node.js, improving mobile load speed and UX metrics by 25%.
- Engineered RESTful backend services in Java and Spring Boot, integrated with third-party APIs and secure payment gateways.
- Developed ERP modules with React and SpringBoot, streamlining order workflows and cutting operational downtime by 40%.
- Finetuned MySQL, MongoDB, and PostgreSQL databases for faster queries, cutting average page load times by 20%.
- Built CMS platforms in Laravel and PHP, enabling marketing teams to self-manage content and reducing dev support by 35%.

Software Engineer Intern
Google Summer of Code
04/2016 - 08/2016   *Indore, MP, India*
Achievements/Tasks

- Enhanced Cytoscape's data analysis capabilities by creating a custom compiler with SQL-like queries.
- Improved the CLI with features like variable substitution, decision-making, looping, and autocomplete.
- Diagnosed and resolved bugs to enhance functionality and stability of the Cytoscape platform.

SKILLS

JavaScript · TypeScript · jQuery · Angular · ReactJS · NextJS · VueJS · NodeJS · Express · HTML · CSS · Bootstrap · Tailwind CSS · Java · Spring Boot · PHP · Laravel · Python · SQL · MySQL · PostgreSQL · MongoDB · REST API · GraphQL · AWS · Git/GitHub · Docker · Kubernetes · Intellij IDEA · VSCode

PERSONAL PROJECTS

SharePulse – Share Market Application
- Developed a responsive real-time stock market dashboard using React and Material UI with intuitive charting and filters.
- Used Apache Kafka to stream live market data and WebSockets to broadcast updates instantly to connected clients.
- Implemented Node.js backend with PostgreSQL database and REST APIs.
- Containerized the application using Docker, Kubernetes, and Jenkins for CI/CD.

SmartRetail – E-Commerce Website
- Built a responsive e-commerce app using Next.js and React, with features like product filters, cart, and checkout.
- Developed backend services in Spring Boot to manage users, orders, and inventory, connected to a MySQL database.
- Integrated Stripe for secure payments, AWS S3 hosting with CloudFront CDN.
- Implemented JWT-based authentication and role-based access control.

LearnLink – Online Learning Portal
- Designed an Angular-based platform for online courses, including dashboards, progress tracking, and quizzes.
- Created REST APIs with Spring Boot and used PostgreSQL for managing users, content, and assessments.
- Used AWS Lambda and SQS to handle notifications and quiz scoring & reports.

CollabSuite – Real-Time Collaboration App
- Developed a team collaboration tool using Vue.js with real-time task boards, chat, and file sharing.
- Set up WebSockets for live updates and Kafka for handling event streams like task changes and user activity.
- MongoDB for efficient data storage for user data, projects, and messages.

CMSFlex – Cloud-Based CMS
- Built a flexible CMS with React and Spring Boot for content management.
- Implemented GraphQL APIs for data fetching and Redis for caching.
- Deployed to AWS with S3 for assets, API Gateway, & Terraform infrastructure.

CERTIFICATES

Introduction to Front-End Development
Meta Certification

Building Scalable Java Microservices with Spring Boot and Spring Cloud
Google Certification

Developing Back-End Apps with Node.js and Express
IBM Certification