

BASANTA SHRESTHA

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SOFTWARE ENGINEER

Enthusiastic Software Engineer experience in developing, maintaining, and deploying highly efficient and optimized web applications using PHP and Java. Experience in working in the telecommunication and financial industry adapting the agile methodology. Skilled in using Laravel, Spring Boot, React.js, Livewire, Vue.js, JavaScript, jQuery, Git, GitHub, GitLab, Bitbucket, Docker & MySQL.

Domain Driven Design □ CI/CD □ Object Oriented Programming □ Data Structure and Algorithms
Design Patterns □ Database Management □ Micro-services □ Cloud Computing □ Software Development Life Cycle

Languages: Java, PHP, JavaScript

Web: HTML, CSS, Javascript, JQuery, Ajax, JWT

Web Services: REST, SOAP

Web/App Servers: Apache Tomcat, Apache HTTP, Nginx

Frameworks: Laravel, Spring boot, Livewire, React.JS, Vue.js

Databases: MySQL, Oracle, PostgreSQL, MS SQL Server

Design Patterns: Factory, Builder, Adapter, Composite, Prototype, Observer, MVC, Repository, Singleton, Service

SDLC: Agile, Sprint, Scrum

Tools: IntelliJ Ultimate, Webstorm, PHPStorm, VSCode, MySQL Workbench, Postman, Jira, Git, GitHub Actions, Docker, JUnit, PHPUnit, Figma, Adobe XD

Platforms: Linux, Windows, AWS

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

K. K. OUTSOURCING PVT LTD, Kathmandu, Nepal □ 07/2022 – 07/2023

IT and Financial Company.

Back End Developer

Developed, deployed, and enhanced web services.

- Implemented a real-time bidding system utilizing Pusher channels to establish persistent connections between users and the server, enabling real-time updates and faster auction participation. This enabled instantaneous updates on auctions price and status so that user can participate in auctions with minimum delay.
- Integrated Livewire, a PHP framework, to facilitate seamless client-side updates within the real-time bidding system, eliminating constant page refreshes to more smoother and more responsive user experience.
- Optimized MySQL database schema and leveraged Laravel's Object-Relational Mapping (ORM) to achieve a 30% reduction in response time, ensuring efficient data interaction. It also allows developers to write less code and focus more on core business logic of the project.
- Implemented robust JWT authentication and authorization using Spatie package, guaranteeing secure access control for securing sensitive information and distribute application to different user types.
- Integrated Amazon SES and Pusher to establish a scalable messaging system for real-time data exchange (bidding and other web service functionalities), enhancing user engagement.
- Implemented payment processing functionalities using Stripe and PayPal for a web service, offering users secure and convenient payment options.

Technologies Used: PHP, Laravel, HTML, CSS, JavaScript, Livewire, Atlassian, Jira, FTP, Amazon SES, Git, GitHub, Bitbucket, AJAX, JQuery, Docker (Laradock), Linux

NEW IT VENTURE CORPORATION [NITV NEPAL], Kathmandu, Nepal □ 07/2020 – 07/2022

Telecommunication and Technology Company.

Web Application Developer

Developed, deployed and enhanced web services.

- Developed highly scalable and secure backend systems (databases, APIs, web services) that handles more than 5 million users for voting modules and ticketing events, following best practices of Repository Pattern and design principles, ensuring secure content distribution.
- Implemented a custom role-based authentication system using Laravel's access control features (Guards, Gates, Policies), that provides secure and dynamic content delivery to diverse user groups to restrict access based on user roles and deliver the personalized dashboards according to their roles.
- Developed and maintained custom Report Management Systems using Laravel and ORM, fulfilling business and partner needs for improved revenue, customer, and payment information tracking. The reports facilitated data-driven decision making, and improved partner transparency with regards to revenue and customer information.
- Implemented a centralized help-desk system, improving communication, issue tracking, and workflow efficiency by 30%. Streamlined ticketing for stakeholders, clients, and staff, and developed custom APIs for data exchange.
- Leveraged diverse APIs (SOAP & REST) and designed custom solutions to optimize data exchange between systems, ensuring seamless integration and process automation.
- Experienced in unit testing with JUnit (Java) and PHPUnit (PHP), ensuring code quality through automated test creation and execution for individual software components.

Technologies Used: PHP, Java, Spring, Spring Boot, Laravel, React.js, HTML, CSS, JavaScript, Git, Github, Bitbucket, Docker (Laradock), Linux, Jira

NEW IT VENTURE CORPORATION [NITV NEPAL], Kathmandu, Nepal □ 07/2019– 07/2020

Telecommunication and Technology Company.

Web Application Developer [Internship]

Developed, deployed and enhanced web services.

- Designed and developed RESTful APIs using Spring MVC and Laravel for efficient data exchange between the application and external systems, contributing to streamlined user experience and real-time data integration.
- Leveraged Laravel's Eloquent ORM and Spring Boot's JPA to streamline data persistence across relational databases, ensuring efficient data management for both Laravel and Spring Boot applications.
- Collaborated with design teams to implement User Interface and User Experience (UI/UX) improvements using frameworks like Bootstrap and Material, resulting into a more intuitive and user-friendly experience.
- Troubleshooted application stability by analyzing in-dept log analysis, identifying root causes, implementing fixes, and documented processes for improved maintainability and knowledge transfer of applications.

Technologies Used: PHP, Java, Spring, Spring Boot, Laravel, React.js, HTML, CSS, JavaScript, Git, Github, Bitbucket, Docker (Laradock), Linux, Jira

ACADEMIC PROJECTS

Maharishi International University, Property Management System (2024): Developed a full-stack real estate web application using Spring Boot (backend) and React.js (frontend) for property buying and selling. Leveraged MySQL for efficient data storage and implemented robust JWT authentication for secure user access.

Technologies used: Java, Spring Boot, JavaScript, React.Js, MySQL, JWT, GitHub

Maharishi International University, Resort Management System (2023): Built a scalable resort booking system using Spring Boot, enabling efficient reservations and management. Utilized MySQL for robust data storage and secured user access with JWT authentication. Ensured high availability by deploying the application on both AWS and Azure cloud platforms.

Technologies used: Java, Spring Boot, JavaScript, MySQL, JWT, Microsoft Azure, AWS

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 04/2026)

Maharishi International University, Fairfield, Iowa

Key Courses: Enterprise Architecture, Web Application Architecture, Algorithms, Web Application Programming

Bachelor of Science in Computing

London Metropolitan University, London, United Kingdom

