**Gyan Bahadur Tamang**

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**SOFTWARE DEVELOPER**

*Available for* ***full-time, W2 employment***

Experienced **Full Stack Developer** with over **5+ years** of comprehensive experience in the **Software Development**, specializing in the design and development of highly scalable and robust enterprise solutions. Expertise in collaborating with **cross-functional teams** to deliver high-performance applications that align with business objectives. Known for **team player** with **attention to detail, excellent interpersonal skills, communication skills, and problem-solving** **skills**..

**PROFESSIONAL EXPERTISE**

• Enterprise Application • Single Page Web Application • Web Development • System Integration • Micro-services • SOA • User Interface • Software Development Life Cycle (SDLC) • Restful APIs Design • Object Oriented Programming (OOP) • Data Structures and Algorithm (DSA) • SOLID Principles • Unit Testing and Integration Testing • Troubleshooting and Debugging • Database Management and Design • Agile Methodologies.

**TECHNICAL SKILLS**

• **Languages**: Java, JavaScript/TypeScript, and PL/SQL.

• **Web**: HTML5, CSS3, XML, DOM, jQuery, Ajax, Bootstrap, JavaScript, ES6.

• **Web Services**: RESTful services, GraphQL, Micro-services, Web Services, JSON, SOAP.

• **Frameworks**: Angular version (6-18), React, Spring, Spring Boot, Spring Cloud, Spring Security, Hibernate.

• **Design Approach**: Test Driven Development (TDD), Event Driven Development (EDD), Domain-Driven Design (DDD).

• **Databases**: RDMS, NoSQL, SQL- Oracle, MySQL, PostgreSQL, Redis, DynamoDB.

• **Testing frameworks**: JUnit, Mockito, Jest, Jasmine.

• **Messaging**: JMS, Kafka, RabbitMQ.

• **Containerization**: Docker, Kubernetes.

• **Design Patterns**: Singleton, Prototype, Observer, Facade, Factory, SOA, DAO, MVC and others.

• **Tools**: Gi, Jira, JBoss, Apache/Tomcat, Maven, CI/CD pipeline with Jenkins, IntelliJ, VS Code, pgAdmin4 and Postman.

• **Development** **Methodologies**: Agile/Scrum.

• **Cloud Technologies**: Azure, AWS (Elastic Beanstalk, Elastic Search, EC2, RDS, SNS, SQS, IAM, Lambda, S3, CloudFront).

**• Operating Systems/** **Platforms**: Unix, Linux - Ubuntu, Windows.

**PROFESSIONAL EXPERIENCE**

**HISP India • Delhi, India • Jul 2019 - Aug 2023**

**Projects**: DHIS2 (<https://dhis2.org/> ) and OpenMRS (<https://openmrs.org/> )

**Role**: Software Developer

**Responsibilities**:

* Collaborated with **cross-functional teams** to gather and analyze business and functional requirements, ensuring alignment with project features, goals and delivering solutions that met stakeholder needs and improved overall project outcomes.
* Developed and maintained **open source** **DHIS2 software**, the world’s largest **Health Information Management System (HIMS)**, utilized by over **128 countries** to manage and analyze health information, enhancing global health data management capabilities.
* Developed and maintained OpenMRS software, the world’s leading open-source **Electronic Medical Records (EMR) platform**, supported by a global community and adopted by **over 80 countries'** hospitals and medical sectors, enhancing electronic medical record management worldwide.
* Built and integrated an **Antimicrobial Resistance (AMR)** **Surveillance** module into the **DHIS2 platform**, enabling the management of lab data across **10+ hospitals** using a **microservice architecture**. This implementation **streamlined data collection** and reporting, resulting in a 40% improvement in data accuracy and a 30% reduction in processing time for lab results.
* Created an **Inventory Module** to manage over 5,000 drug stock items, integrated seamlessly into the **OpenMRS platform**. Implemented real-time tracking, which reduced inventory discrepancies by 30%, and introduced automated restocking alerts that decreased stockouts by 25%, significantly enhancing overall inventory management efficiency.
* **Troubleshooted and debugged** critical issues within DHIS2 and OpenMRS systems, ensuring optimal application performance and enhancing overall system reliability.
* Implemented real-time data streaming solutions and data analytics for DHIS2 using **Kafka**, which improved data processing speed by 40% and enabled timely data analysis across the platform**.**
* **Re-engineered** the DHIS2 platform, reducing bugs by 16% and successfully releasing a new, more stable version, which improved system reliability and user satisfaction.
* Seamlessly integrated **third-party applications** into DHIS2 and OpenMRS, enhancing system functionality and enabling smoother interoperability between platforms.
* Utilized **Jenkins** for **Continuous Integration and Continuous Deployment (CI/CD)**, integrating with **GitHub Actions** to automate deployment pipelines in **AWS** environments, enhancing deployment efficiency and reducing release times by 30%.

***Technologies Used:*** *Java, Spring, Spring Boot, Hibernate, Spring Security, Spring Cloud, Microservices, JMS, Kafka, RabbitMQ, Java Beans, JDBC, Java Multithreading, JUnit, Mockito, XML,* *XSLT,* *WSDL, JSP, HTML, CSS, Tailwind, JavaScript, TypeScript , Angular 12, React, Redux, Jest, Jasmine MySQL, PostgreSQL, Prototypes, Prometheus, Grafana, Scrum, Maven, SVN, Docker, Kubernetes, CI/CD pipeline with Jenkins, Redis, AWS, Github*.

**Solulab Inc, • Ahmedabad, India • Jan 2019 - Jul 2019**

**Project: Bevvi** (<https://www.getbevvi.com/> )

**Role: Front-End Developer**

**Responsibilities:**

* **Developed** the **Bevvi e-commerce** web application in collaboration with cross-functional teams, enhancing user engagement and functionality.
* **Designed** a responsive **user interface (UI)** for the Bevvi application, increasing mobile traffic by 25% and improving user satisfaction.
* **Integrated** **RESTful APIs** into the Bevvi application, enabling seamless data exchange and functionality with third-party services.
* **Utilized** **Jenkins** for **Continuous Integration and Continuous Deployment (CI/CD)** with GitHub Actions, reducing deployment times by 40% and improving release consistency.
* **Monitored, debugged, Refactoring, resolved** application issues and production support, decreasing bug reports by 30% and maintaining optimal performance and quality assurance.
* **Delivered** highly **scalable and responsive** Bevvi web applications to clients in New York City, significantly enhancing their e-commerce operations.

***Technologies Used:*** *JavaScript, ES6, JQuery, Bootstrap, UI/UX Responsive Design*, *NPM, Webpack, TypeScript, Angular 8, Rxjs, CLI, Jest, Jasmine, Karma, NoSQL, MongoDB, Node, CI/CD with Jenkins, Docker, Google Cloud, Azure, GitHub, Jira and web Development.*

**Insight Tycoon • Kathmandu, Nepal • Feb 2018 – Jan 2019**

**Project:** Tenderaa (<https://tenderaa.com/> )

**Role: Java Developer (Back-End)**

**Responsibilities:**

* Built RESTful APIs for the **Tenderaa e-commerce** application, which contributed to attracting 3 additional clients and expanding the customer value.
* Designed and implemented the business layer in collaboration with Project Manager, achieving a 25% improvement in **modularity and facilitating loose** **coupling** of business components across application layers.
* Implemented **automated testing for both Unit test and Integration testing** with a reactive approach to API design, resulting in an 18% improvement in application performance and enhanced responsiveness.
* Collaborated with front-end developers to integrate APIs seamlessly into web application, ensuring a smooth and **cohesive user experience**.
* Ensured application performance, security, and user-friendliness in multi-threaded environment, maintaining a 99.9% uptime and securing sensitive data against vulnerabilities.
* Participated in **source** **code review** and enhancement processes, improving code quality and contributing to the overall robustness of the application.
* Collaborated with DevOps Team and provide Technical Support.

***Technologies Used:*** *Java, JVM, Spring Boot, Spring Cloud, Hibernate, Microservices, Functional Programming, JWT, Stream API, Collection framework, OAuth 2.0, ActiveMQ, Apache Kafka, JMS, Java Beans, JDBC, JUnit, Mockito, PostgreSQL, OpenAPI, Swagger UI, Scrum, Confluence, Docker, CI/CD with Jenkins, Redis, AWS, Version Control, and Git*.

**ACADEMIC PROJECTS**

**Ankaboot, Maharishi International University Fairfield, Iowa US, 2024**

Implemented Ankaboot, a small distributed system that focuses on finding sensitive data and representing it in a graphical format. Built microservices for backend application using Spring Boot, Spring Data, Spring Security, Spring Cloud, Event Bus, AOP, Hibernate, Caching, Feign Client, Flux, RestTempla, MySQL, and IntelliJ IDEA. Spearheaded development of gateway, config server, eureka server, and data services. Developed comprehensive unit tests using JUnit and Mockito to ensure the robustness and reliability of the product management section.

**Medication Management System, Maharishi International University Fairfield, Iowa US, 2023**

Implemented a Medication Management System, focusing on Responsive Design managing medication records from the store use cases. Built responsive web applications using Angular 16, TypeScript, Rx js, UI/UX design, End-To-End Testing, HTML, CSS, BootStrap, Node, MySQL, AWS for cloud computing, Visual Studio, and GitLab to manage source code.

**Resort Booking System, Maharishi International University Fairfield, Iowa US, 2023**

Implemented a Hotel Reservation System, focusing customer needs. Designed REST APIs Back End application using Spring Boot, Spring Data, Spring Security, Spring Cloud, AOP, JWT, OAuth, Hibernate, Caching, flux, Dependency Injection, MySQL Eclipse IDE. Led authentication of REST API routes and spearheaded deployment of the REST API on AWS service using Bitbucket, Version Control and CI/CD pipelines for seamless deployment.

**EDUCATION**

Master of Science in Computer Science (2023 – 2024) **GPA: 3.72**

Maharishi International University, Fairfield, Iowa, US.

Bachelor of Technology in Computer Science & Engineering (2015 - 2019) **GPA: 3.42**

Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India.

**PROFESSIONAL DEVELOPMENT**

• Front-End JavaScript Frameworks: Angular

(<https://www.coursera.org/account/accomplishments/verify/VAJ5UHNCRRRC> )

• Master Microservices with Spring Boot, Docker, Kubernetes

(<https://www.udemy.com/certificate/UC-616b916e-3ce8-46e0-80a9-d5949d66f63d/> )

• Master Spring 6 Spring Boot 3, REST, JPA, Hibernate

(<https://www.udemy.com/certificate/UC-4193990a-8f04-4f75-8ce2-09eaca7b066b/> )

• Ultimate AWS Certified Cloud Practitioner CLF-C02

(<https://www.udemy.com/certificate/UC-f70269e1-484e-4401-899f-117976fac16f/> )