

PRAKASH KOJU

210.980.0533 • prakash.koju@outlook.com • <https://www.linkedin.com/in/prakashkoju>

JAVA DEVELOPER

Motivated Software Engineer with above 5+ years of hands on experience developing, testing, and deploying new software systems and application. Ensure optimal performance by testing, debugging, and maintaining applications. Skilled in implementing Java, Spring, JavaScript, CSS, AJAX, MySQL, MS SQL, PL/SQL Docker, RESTful API with deep knowledge of SOLID principle, algorithms, and design patterns.

Java Programming • Data Structure and Collections • Software Development Life Cycle
Testing / Debugging • Technical Documentation • Root Cause Analysis • Code Review

Languages: Java, C++, C, PL/SQL

Web: HTML5, CSS3, Bootstrap, AJAX, jQuery, JSP, Thymeleaf, Servlet, Bootstrap, JavaScript, JSON, XML

Web Services: REST, SOAP

Web/App Servers: Tomcat, Weblogic, WildFly (Jboss)

Frameworks: Spring Framework, ORM – Hibernate, JPA, Spring MVC

Databases: MS SQL, MySQL, MongoDB, H2, Oracle

Design Patterns: Factory, Singleton, Iterator, Facade

SDLC: Waterfall, Agile/Scrum, RAD, RUP

Tools and Technologies: Maven, Git, Spring Tool Suite, Eclipse, NetBeans, Visual Studio Code, Postman, Docker, Swagger, IntelliJ, JIRA, RALLY, MySQL Workbench, JUnit, Mockito, AWS, Jenkins, SonarQube, SQL Developer, Toad, Oracle.

PROFESSIONAL EXPERIENCE

Cubic Technologies Inc., Irving, TX • November 2019 – August 2020

Consulting and Staffing company

Software Developer, Java (Verizon, TX)

Implemented Java, Spring Boot and SQL to develop and maintain all functionalities of application.

Tasks Performed:

- Developed business components using **Java8**, **Spring Boot**, Spring Dependency Injection and **Spring MVC**.
- Used Microservices architecture, with Spring Boot-based services interacting through a combination of Rest and **Spring Boot**.
- Developed Microservices to communicate using synchronous protocols HTTP and REST. Exposing the **Microservices** based on Restful API utilizing Spring Boot with **Spring MVC**.
- Developed build and deployment scripts using Maven as build tools in Jenkins to move from one environment to other environments.
- Responsible for configuring **Continuous Integration** Server i.e. **Jenkins and SonarQube**.
- Developed Java Spring Boot modules that can interact with **AWS** service to update the documents.
- Added microservices to support new features in existing web application (ICON) following test driven design pattern (**TDD**).
- Refactored codes and unit tests to ensure code quality, security, and test coverage using **SonarQube**, **JUnit** and **Mockito**.
- Tested application using **Swagger and Postman**.
- Provisioned **Apache Kafka** on newly created microservice to publish events on Kafka topics for asynchronous communication with other existing services.
- Monitored events published in Kafka topics using **Kafka inspection tool**.
- Developed **stored procedure, function, triggers**, and sequence using **PL/SQL**.
- Developed UI screens for new application features using **Angular** components, templates and services.
- Used **Log4j** along with **Splunk** for logging error/debug messages and managing them.
- User **GitLab** for distributed versioning of the code.

- Debug existing codes to resolve issues related to telemetry, and inventory consolidation during production support.
- Analyzed and updated consumer data in **Oracle** to expedite IT support for end users ensuring the expected resolution.

Technologies Used: *Java8, Spring Boot, Spring Framework, Kafka, Angular, AWS, Tomcat, Log4j, PL/SQL, Oracle, Maven, GitLab, JUnit, Swagger, Postman, SonarQube, Jenkins*

ENDEAVOR PVT LTD, Pulchowk, Lalitpur • June 2017 – November 2018

Software development company

Software Developer (Remote)

Leveraged Java, Spring Boot and JavaScript technologies to develop an application on a freelance basis. Communicated directly with clients on requirements, project status and progress.

Tasks Performed:

- Analyzed and designed workflow architecture for cafeteria and order management based on different consumer groups
- Developed application using **Spring MVC**, **Maven** build tool and with war packaging.
- Used **Spring Security** along with **Auth0** for **JWT** based authentication
- Involved in creating the **Hibernate** POJO Objects and mapped using Hibernate Annotations.
- Designed and developed web application incorporating MVC architecture using spring boot.
- Developed responsive UI using Servlets, **HTML**, **CSS**, **JSP**, and **JavaScript** with back-end integration.
- Provided ORM mappings using Hibernate to map java classes with **MySQL** database tables to access data.
- Implemented Java **RESTful APIs** with a focus on building quality features using agile methodologies.
- Worked with **JMS API** for sending and receiving messages between 2 or more consumers.
- Worked on performance tuning and memory management using **JProfiler tool**.
- Created the online application by using **Core Java**, **JSP**, **Web Servlets**, **SOAP**, and **WSDL**.
- Followed Singleton, factory **design pattern**, DAO Design Patterns based on the application requirements.
- Implemented DAO layer using JPA (Hibernate framework) to interact with the database.
- Responsible for testing controllers with Unit Test Cases & test the Service layer using Integrated Test Cases.

Technologies Used: *Java8, Maven, JavaScript, AJAX, Bootstrap, HTML, CSS, Spring Boot, Spring Security with JWT, Apache Tomcat, MySQL, Maven, GitHub*

CROSSOVER NEPAL, Kupondol, Lalitpur • Jan 2015 – Jan 2017

Software development company.

Software Developer

Designed and maintained software and applications.

Tasks Performed:

- Developed web layer using **Struts** framework to manage the project in **MVC** pattern.
- Developed business layer using **EJB** stateless session beans and deployed on Application server (**WebLogic**)
- Performed Tuning, load balancing and optimization of WebLogic Application Server
- Developed Spring Beans and configured spring using ApplicationContext.xml.
- Assisted Database Developers using **MSSQL** and **TSQL** for managing data associated with the tables.
- Used Spring Data JPA for entity management and data manipulation.
- Configure Hibernate with Spring **ORM** as part of spring and Hibernate Integration.
- Implemented a multi-user web application using **JSP**, **Servlet**, **JDBC**, & **Hibernate** to provide functionality.
- Integrate Web Services and Legacy Systems using **SOAP** and **Rest** (Using **Jersey** frameworks).

- Generated DAO's to map with database tables using Hibernate. Used **HQL** (Hibernate Query Language) and Criteria for database querying and retrieval of results.
- Used **Log4J**, JUnit for debugging, testing and maintaining the system state.
- Wrote **JUnit** Test cases for Spring Controllers and Web Service Clients in Service Layer using **Mockito**.
- Created Rest web services using **JAX-RS**, Hibernate framework.
- Learned **Dojo** toolkit to construct Ajax requests & build dynamic web pages using JSP, HTML, JavaScript
- Developed many JSP pages, used Dojo in JavaScript Library, jQuery UI for client-side validation.

Achievement:

- Implemented and followed best practices for software development.
- Recognized as Best Newcomer of the Year.

Technologies Used: *Java8, Maven, Hibernate, Jax-rs, Struts, JavaScript, JSP, MSSQL, HTML, AJAX, jQuery, Dojo, CSS3, Spring Boot, Weblogic, Mockito, JUnit.*

SANCHAYA STAFFING SERVICES NEPAL, Kumaripati Lalitpur • Jan 2013 – Jan 2015

Outsourcing company providing wide range of software services.

Software Developer

Contributed to all phases of software development life cycle for applications.

Tasks Performed:

- Developed **RESTful APIs** to integrate with other internal business groups like finance and public relations to support e-Bidding and electronic invoicing with respect to bill of quotation
- Developed monolithic web application using **Java7, Apache Maven** and **Spring framework**.
- Developed store procedure, function, and views in **MSSQL** to gain better performance.
- Developed presentation layer using **JSP, JSTL, CSS3**, client-side validation using **JavaScript**.
- Implemented **MVC** architecture façade design pattern and **ORM** using Hibernate.
- Created controller advise using **AOP** for better and global handling of exceptions across the application.
- Performed root cause analysis of technical issues and defects
- Prepared technical document and technical concept document having class diagram, sequential diagram, use case and flow of events with preconditions and business rules.
- Performed testing and debugging using JUnit and Swagger
- Train salespeople and new members service solution department to support business development and sales strategy

Achievements:

- Improved application efficiency through Spring modules such as Core, JDBC, and AOP.
- Applied J2EE design patterns like Factory, Singleton, and MVC.
- Built and integrated complex RESTful web services for application consumption.

Technologies Used: *Java7, Maven, JavaScript, JSP, MS SQL, HTML, AJAX, jQuery, CSS3, Tomcat, Spring Boot, Postman*

UNITED TELECOM LIMITED, Putalisadak, Kathmandu • Aug 2010- Jan 2013

Telecommunication Service Provider.

Telecom Engineer

Managed pre-paid service accounts and organized procurement and product distribution.

Tasks Performed:

- Developed a web application to view and export MIS report of mobile subscribers and recharge card sales statistics.
- Enhanced existing system monitoring application for alarm checking and fault device reporting by bug fixing and database update.
- Operated and maintained Intelligent Network servers and applications.
- Upgraded Recharge Voucher Management system with added API to integrate online PoS and enable third parties to activate prepaid subscribers and RVs.
- Planned, maintained, and managed database and documents related with customer support, salespeople, distributors, and marketers aligned with Value Added Service system.

- Involved directly in procurement of assets and goods to analyze, evaluate, and verify technical/financial specification and bidders' compliance in tenders and bids.
- Administered contract performance including delivery, warranty, and insurance in procurement in accordance with procurement policy issued by Nepal government.

Achievement:

- Developed, implemented, and managed Charging Matrix.
- Understood operation and maintenance of IN and IVRS system integrated with BSS and MSC.

ACADEMIC PROJECTS

MUMDormApp, Maharishi University of Management (2019): Created web application as part of 4-member team to enable eCommerce for on campus students, integrate separate microservices through RESTful APIs, and manage payment through PayPal.

Technologies Used: Java, Spring Boot, Spring Data JPA, Spring Security, REST, Microservices, Spring MVC, MySQL, JSP, HTML, CSS, Bootstrap, Postman, IntelliJ.

Hotel Smart Reservation System, Maharishi University of Management (2019): Designed Java web application with room and member crud functions, explore, reserve, check-in/out, and reviews.

Technologies Used: Java, Spring Boot, Spring Data JPA, MVC, MongoDB, Thymeleaf, HTML, CSS, Bootstrap, IntelliJ.

MUM Recreation Center, Maharishi University of Management (2019): Developed Java desktop application including members and resources crud functions, search, check-in/out, and registration.

Technologies Used: Java, JSP, JavaScript, jQuery, AJAX, Servlets and Filters, Bootstrap, MySQL, VS Code.

InstaMUM, MUM (2019): Created Instagram-like social media web application with team of 4 students.

Technologies Used: Java, Eclipse JEE, HTML, Thymeleaf, JavaScript, jQuery, AJAX, MVC, Spring Boot, Spring Security, Bootstrap, MySQL, VS Code, Swagger, Docker.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion October 16, 2021)

Maharishi University of Management, Fairfield, Iowa

Key Courses: Modern Programming Practices, Web Application Programming, Algorithms, Enterprise Architecture, Software Engineering

Master of Business Administration

Pokhara University, Ace Institute of Management, Kathmandu, Nepal

(2012-2017)

Bachelor of Engineering in Electronic and Communication Engineering

Purbanchal University, Khwopa Engineering College, Bhaktapur, Nepal

(2005-2010)