BIMAL PARAJULI
Senior Software Engineer (AI/ML Focus)

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PROFESSIONAL SUMMARY

Seasoned Senior Software Engineer with 10 years of experience in designing, developing, and implementing robust web applications, with a recent focus on spearheading cutting-edge Generative AI and Machine Learning projects. Proven expertise in integrating advanced AI solutions into digital ecosystems, training domain-specific ML models, and implementing Relevance Generative Answering to deliver intelligent, context-aware content. Adept at leveraging modern frameworks and cloud services to build scalable, high-performance platforms that drive significant business impact and enhance user experiences.

WORK EXPERIENCE

LPL Financial Services, Fort Mill, SC | Sr. Software Engineer
Jun 2023 – Present

- Spearheaded the successful integration of Generative AI into LPL's digital ecosystem, developing and training domain-specific ML models to implement Relevance Generative Answering, enhancing content relevance and user engagement.
- Transformed digital self-service by enhancing search functionality using Coveo, delivering precise, dynamic, and personalized user experiences, significantly improving search accuracy.
- Designed and implemented scalable, resilient platform architectures with robust monitoring and alerting systems, ensuring high availability and performance for Advisor and Home Office platforms.
- Collaborated with QA and DevOps teams to implement CI/CD pipelines, accelerating release cycles and improving deployment reliability.
- Utilized AWS services including API Gateway, Lambda, and S3 to build and maintain scalable backend services and APIs, supporting critical AI/ML infrastructure.
- Led the migration of a WordPress-based website to Adobe Experience Manager (AEM), enabling dynamic page generation and streamlined content management.

Deloitte LLP, Charlotte, NC | Technical Consultant (IPS)
Jan 2022 – May 2023

- Managed and enhanced the Single Page Application (SPA) ecosystem under the flagship kp.org website, delivering secure, scalable, and user-centric solutions for the Appointment Management System, serving millions of users.
- Identified and resolved critical security vulnerabilities across the Appointment System and the broader AEM application, safeguarding sensitive patient data and ensuring HIPAA compliance.
- Developed responsive, cross-platform web components using Angular, optimizing user experience across various devices and screen resolutions.
- Managed and tested RESTful web services using Postman, integrating with backend APIs built on the Node.js platform to ensure smooth data flow and system interoperability.
- Investigated and resolved web and mobile issues by analyzing request objects and logs using Splunk and Dynatrace, significantly reducing incident resolution time and improving user satisfaction.

Blue Acorn iCi, Raleigh, NC | AEM/JAVA Developer
Dec 2017 – Dec 2021

- Developed, implemented, and configured web content management solutions using AEM v6.1 and AEM v6.3, creating editable templates and components for consistent, responsive web platforms.
- Led the design and development of frontend components with JSP, HTML, CSS, and JavaScript, ensuring ADA compliance and cross-browser compatibility.
- Worked with Jenkins for CI/CD deployment, following Git processes to manage codebase in Bitbucket, enhancing development workflow efficiency.
- Experienced with Java and Groovy for backend bundles, models, servlets, and services, including AEM query builder and content migration scripts.

Eminence Ways Pvt. Ltd, Kathmandu, Nepal | Web Application Developer
Apr 2014 – Jun 2016

- Contributed to Java web application design and development for a Customer Relationship Management (CRM) system, leveraging Spring-Hibernate to deliver expected features and requirements.
- Created RESTful and efficient backend Web API solutions for large-scale data analysis using JSON, Spring, and MVC.
- Increased data reading performance by 50% through sharing and query optimization techniques in the database.
- Designed and developed UI using JSP, HTML, CSS, JavaScript, jQuery, and Bootstrap, enhancing user experience and interface design.

ACADEMIC PROJECTS
Maharishi University of Management, Fairfield, Iowa

Library Management System (Sept 2016 - Oct 2017)

Designed and implemented a desktop application using JavaFX, MVC, and Façade patterns, demonstrating strong object-oriented design and problem-solving skills.

Attendance Management System

Developed a web application for student attendance tracking with CRUD features, implementing Spring MVC, Spring Security, and Hibernate for robust backend and secure authentication.

Carpooling App

Programmed a ride-sharing application with N-tier Architecture, focusing on dynamic UI development with JavaScript, jQuery, and AJAX, and efficient database design with MySQL.

Auction App

Created an online auction web application using Java and Maven, featuring a responsive Angular frontend and Spring MVC for dependency management and RESTful web services.

Online Self-Assessment System

Maintained and enhanced an existing web application for student exams using Spring-MVC and Hibernate, involving full SDLC phases from requirements gathering to deployment, and utilizing Agile methodology with JIRA.

EDUCATION
Master of Science in Computer Science
Maharishi University of Management- Fairfield, Iowa, USA

Bachelor of Software Engineering
Gandaki College of Engineering and Science, Pokhara, Nepal (Affiliated to Pokhara University)

CERTIFICATIONS
Oracle Certificate: 1Z0-803 Java SE 7 Programmer I

Adobe Certified Expert - AEM 6 Developer

AWS Certified Machine Learning Specialty, Google Cloud Professional Machine Learning Engineer