

DEEP KC

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Dedicated and results-driven Software Developer with over 6 years of experience building and optimizing healthcare information systems. Strong expertise in **HL7 integration**, **LIS modules**, **medical device connectivity**, and **hospital workflow automation**. Proven track record of delivering reliable, secure, and high-performing solutions used across multiple hospitals. Recognized for bridging the gap between technical teams and clinical users, ensuring systems truly support patient care and operational efficiency.

EXPERIENCE

SEPT 2018 – AUG 2025

SOFTWARE DEVELOPER, MIDAS HEALTH SERVICES

- Led the development, enhancement, and maintenance of **complex Delphi and .NET Framework healthcare applications** deployed across multiple hospitals.
- Designed, implemented, and maintained **HL7 integrations** to ensure seamless, accurate, and secure data exchange between HIS, LIS, PACS, and medical devices.
- Developed and supported the **Laboratory Information System (LIS) module**, handling test ordering, sample registration, barcode workflows, result entry, verification, and report generation.
- Integrated **laboratory analyzers and medical devices** via serial and TCP/IP communication, ensuring automated, accurate, and timely result transfer into hospital systems.
- Partnered with QA, product teams, and hospital IT staff to define requirements, troubleshoot issues, optimize workflows, and implement new features.
- Participated in hospital deployments, configuring systems, performing interface testing, training users, and providing ongoing support.
- Enhanced **system performance, stability, and scalability**, streamlining workflows and improving user satisfaction.
- Contributed to **.NET Framework modules and utilities**, supporting system modernization and cross-technology solutions.
- Actively collaborated with clinical staff to understand real-world workflow challenges and implement practical improvements, reducing manual effort and errors.

MAY 2017 – AUG 2017

WORD PRESS DEVELOPER, SUSANKYA TECH

- Assisted in building and customizing WordPress websites to meet client requirements.
- Developed responsive website components and optimized site performance.
- Gained practical experience in CMS management and front-end development.

EDUCATION

2013 - 2017

BEIT, NEPAL COLLEGE OF INFORMATION TECHNOLOGY

Affiliated with Pokhara University, completed comprehensive engineering curriculum focusing on software development and IT fundamentals.

2010 - 2012

HIGHER EDUCATION, GOLDEN GATE INTERNATIONAL COLLEGE

Completed higher secondary education with a focus on science.

TECHNICAL SKILLS

HEALTHCARE & INTEROPERABILITY

- LIS/HIS workflow expertise across orders, samples, results, and reporting.
- EMR/EHR integration ensuring accurate, real-time clinical data exchange.
- **PACS/RIS connectivity for radiology orders, images, and report routing.**
- **Medical device interfacing via Serial (RS-232), and TCP/IP for laboratory analyzers, including bidirectional communication and automated result transfer.**

PROGRAMMING & FRAMEWORKS

- Delphi, C#, .NET Framework for robust enterprise healthcare and cross-platform solutions.
- **Laravel, Java, Unity for modern web applications, interactive tools, and cross-platform development.**
- **Full Software Development Life Cycle (SDLC): requirement analysis, system design, coding, testing, deployment, and maintenance.**

DATABASES & DATA MANAGEMENT

- Proficient in **SQL Server, Oracle, PostgreSQL, MongoDB, and MySQL** for transactional, analytical, and NoSQL workloads.
- **Expertise in T-SQL, PL/SQL, query optimization, stored procedures, triggers, and advanced reporting.**
- **Experienced in data migration, ETL processes, and handling high-volume datasets efficiently and securely.**
- **Knowledgeable in database backup, recovery, replication, and performance monitoring for mission-critical systems.**
- **Designed and maintained data models supporting LIS, HIS, EMR/EHR, and clinical analytics.**

VERSION CONTROL & DEVELOPMENT TOOL

- **Expert in Git and SVN, with extensive experience in branching strategies, merge conflict resolution, collaborative workflows, and maintaining clean, production-ready repositories.**
- **Proficient in Visual Studio and RAD Studio, leveraging advanced IDE features for efficient coding, debugging, and project management.**

ADDITIONAL TECHNICAL SKILLS

- Streamlining and **automating LIS/HIS/EMR workflows** to enhance clinical efficiency and reduce manual errors.
- Integrating **third-party medical devices, laboratory analyzers, and hospital systems** for seamless interoperability.
- Expert in **resolving complex clinical IT, HL7, ASTM, and multi-system integration issues.**