Sandesh Pokhrel

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PROFESSIONAL SUMMARY

Software Developer with 4 years of experience at Ellucian, specializing in Banner ERP, SaaS migration, and cloud-native development. Strong background in PL/SQL, PostgreSQL, React, Node.js, and AWS CDK. Proven ability to modernize legacy systems, resolve SaaS blockers, and deliver scalable, upgrade-safe code across enterprise platforms. Experienced in Agile workflows, CI/CD, automation testing, and cross-functional collaboration.

TECHNICAL SKILLS

- **Languages:** Java, PL/SQL, TypeScript, JavaScript, SQL, Python

- **Databases:** Oracle, PostgreSQL, MySQL

- **Frontend:** React, HTML, CSS, Storybook

- **Backend:** Node.js, REST APIs

- **DevOps:** AWS CDK, Liquibase, Jenkins, Git, WinSCP

- **Testing:** Jest, Playwright, SonarQube

- **Other:** Agile/Scrum, SaaS Migration, PRO*C

PROFESSIONAL EXPERIENCE

Software Developer – Ellucian Banner Student

- Designed, developed, and maintained PL/SQL packages, procedures, and triggers to support student lifecycle processes including registration, course enrollment, academic history, and grading.

- Customized Oracle Forms and Reports for Banner Student processes, ensuring alignment with academic and administrative business rules.

- Automated batch processing and data transfer using UNIX shell scripting, integrating with Banner job submission (GJAPCTL).

- Implemented and supported Banner APIs and BAPIs for internal workflows and third-party integrations.

- Used WinSCP and SFTP protocols for secure script and data file transfers between environments.

- Utilized tools such as Toad for Oracle, SQL Developer, Git, Jira, Liquibase, WinSCP, and Jenkins for development, versioning, CI/CD automation, and issue tracking.

- Performed SQL query tuning, data validation, and generated ad-hoc reports to support internal testing and audits.

Software Developer – Global Acceleration Team (Banner SaaS Migration)

- Contributed to the migration of Ellucian Banner databases from Oracle to PostgreSQL, converting schemas, adapting stored procedures, and refactoring SQL logic.

- Identified and resolved SaaS blockers such as Oracle-specific PL/SQL functions, local file system operations, and batch script dependencies.

- Modified and maintained PRO*C programs for Banner batch processing, optimizing performance and removing deprecated Oracle features.
- Assisted in SaaS readiness by containerizing services, updating deployment scripts, and integrating cloud infrastructure using AWS CDK.

Software Developer – Credit Recognition Project

- Contributed to the development of a Credit Recognition system for evaluating and processing external academic credits.
- Built responsive front-end components using React and TypeScript, with reusable design patterns managed through Storybook.
- Created scalable backend services and RESTful APIs using Node.js and PostgreSQL to handle credit rules and equivalency mapping.
- Provisioned and managed cloud infrastructure using AWS CDK, including Lambda functions and API Gateway integrations.
- Implemented unit tests with Jest and end-to-end automation with Playwright to ensure high test coverage and UI stability.
- Used Jenkins for build automation and SonarQube for static code analysis and continuous code quality enforcement.

Projects

Automatic HTML Code Generator from Mockups

- Built a machine learning-based tool to convert hand-drawn web page designs into HTML code.
- Used Python, TensorFlow, OpenCV, and MySQL to train models and process mock-up images.

ATM Simulator

- Designed a web application simulating ATM operations using HTML, CSS, JavaScript, and SQL.
- Learned and implemented essential web development and database interaction logic.

Online Hotel Room Booking Website

- Developed a dynamic website to support hotel room booking using JavaScript, HTML, CSS, and SQL.
- Focused on user experience and functionality to replicate real-world booking workflows.

Education

B.E. in Computer Science, East West Institute of Technology, Bangalore   2017 – 2021
CGPA: 9.01 / 10

+2 in Science, Milestone International College, Nepal   2014 – 2016
Percentage: 60%

SLC, Lin International School, Nepal   2013
Percentage: 78.5%