WILLIAM FRIESEN

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Technical Experience

- Oracle 12c Database Development
- SQL and PL/SQL
- XML, XSLT, XPath
- HTML, CSS, JavaScript
- SVN, Git
- Apache Solr

Work Experience

Fivium Limited
Applications Developer
01.2012 – present

As an applications developer working in a subcontractor capacity, I have had exposure to several government departments and a range of roles as required, mostly development oriented. I have participated in the full life-cycle of development on new and existing systems, working as an applications developer and an analyst programmer.

Using my experience and in-depth knowledge of Oracle SQL and PL/SQL development, I have delivered solutions to meet rapidly evolving business needs, in both agile and waterfall based environments. By participating in all stages of the software development life-cycle I have also worked with end users and business analysts to define requirements and produce documentation including requirements documents, design responses to formal change requests, and final product specifications.

Working mostly with SQL and PL/SQL, I have also utilized the FOXopen web framework, created and maintained by Fivium. Writing HTML, CSS, and JavaScript, FOXopen allowed me to engage in rapid prototyping of work-flow based web applications to provide an intuitive interface and access to detailed reporting of legislation based government processes.

During my time at Fivium I have expanded on my knowledge of the Oracle development environment, completing an Oracle Certified Associate certification. I have also become an important part of the team environment and company culture, mentoring junior developers and performing peer code reviews to ensure that solutions met with user requirements, and that code produced by the team met with our internal style guidelines and best practices.

Department of Health – PharmCIS

Through Fivium I was engaged to work on a project for the Department of Health, involving a team of over a dozen developers, along with several test and business analysts.

The Pharmaceutical Consolidated Information System (PharmCIS) is a web based application used by employees of the Department of Health to support their work in managing the listing of drugs on the Australian Pharmaceutical Benefits Scheme (PBS), while utilizing data imported from many disparate legacy systems.

Making heavy use of the Oracle database platform, PharmCIS maintains a large set of data in both relational and XML formats, and manages both the importing of data from a variety of external sources, and the publication of this data on a monthly schedule to external stakeholders. Changes to this data are made based on submissions sent to the department by interested pharmaceutical companies, and determines the reimbursements paid to these companies by the federal government, and the prices paid by consumers when they purchase PBS listed medicines.

These submissions can be received and entered into the system years in advance of their actual publication, which requires careful records management to ensure the integrity of the published data.

Major Achievements

- Joining this project after the initial release to production, I participated in a large change request to implement the detection and resolution of "stale" and conflicting data across submissions, a major pain-point for business users that would otherwise require a large investment of their time.

  This required innovative use of PL/SQL development techniques, ensuring the consistency and timeliness of data stored across hundreds of individual tables, and involved compound database triggers, native Oracle XSL transformations, cryptographic hashing, and management of background jobs.

- Implemented the importing and validation of data sets released by the Australian Medicines Terminology, allowing PharmCIS to use a standard terminology of medicines that is developed to specifications maintained by the International Health Terminology Standards Development Organisation (IHTSDO).

  As a monthly release of data, this required me to understand a specification defined over many hundreds of pages of documentation, and develop a solution that could work with the existing data.

  During this task, I implemented robust data validation routines that are now used by the Department of Health every month, and have since found previously undetected errors in the data as provided from upstream.

  This change request involved inspection of Oracle optimizer execution plans, with the eventual implementation making use of several background database jobs communicating with each other through Oracle pipes. This enabled a more efficient use of memory, ensuring that Oracle's PGA memory usage stayed within server hardware limits.

- Implemented the automated transmission of PharmCIS managed data to external stakeholders. Using both SOAP messages and FTP transmissions, this involved the implementation of base64 encoding, and communication with an IBM mainframe system, all developed with Oracle PL/SQL.

- Delivered several Data Change Requests to correct data imported from legacy systems, ensuring the accurate reporting of historical information.

Australian Taxation Office
Data Entry Operative (APS1)
07.2011 – 01.2012

As a seasonal, non-ongoing staff member, I processed incoming mail and transcribed hand written tax returns.

Qualifications

Oracle Certified Associate
2015
PL/SQL Developer 11g

Bachelor of Information Technology
2010
Charles Sturt University, Albury.
With major in Software Design & Development

Other Information

Current Baseline security clearance, sponsored by the Department of Health.

References

Mike Leonard
Lead Developer, Fivium
0411 790 669

Sasha Petrovski
Test Manager, Fivium
0419 419 354