

## RYAN PEDERSEN

**OBJECTIVE** Providing clients with the highest quality software services without compromise. My experienced approach to coding ensures designs that will stand the test of time.

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**SKILLS** Cerner Command Language (CCL), Java, Android, Eclipse RCP, PHP, JavaScript, AngularJS, JSON, MySQL, MS SQL, KB\_SQL, JDBC, JUnit, Karma, Robotium, Hibernate, JasperReports, Maven, Grunt, Jenkins, Subversion, Git, Crucible, VersionOne, Agile Methodologies, UML, Drupal, WordPress, Sotera ViSi API and more

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**EXPERIENCE** **CERNER CONSULTANT, PRAXIFY**

Jul 2016 – Current

Praxify is a mobile based solution that integrates with various EHR systems and provides additional workflows to hospital staff. My responsibilities were to supplement the existing system by providing Cerner specific database knowledge.

- Developed efficient techniques to replicate server requests used by PowerChart.
- Designed and developed MPage Web Service CCL reports to replicate the following PowerChart modules: Allergies, Diagnosis and Problems, Documentation, Follow Up, HandOff, Health Maintenance, Immunizations, Inbox, Interactive Flowsheets, Orders, Patient Education, Patient Lists, and Schedule.
- Designed and developed MPage Web Service CCL reports to replicate Discern Alerts that were evoked within PowerChart.
- Designed and developed a Millennium Objects CCL report to retrieve the immunization schedule for a patient.
- Created CCL sub-program to impersonate logged-in user for various CCL programs that need to update table rows.
- Created CCL sub-program to read and update content on the LONG\_BLOB and CE\_BLOB tables.
- Identified logic and tables used for configurations in FirstNet: TrackingDbTool.
- Developed CCL for editing RTF formatted Clinical Note content.
- Enhanced Millennium Objects patient list retrieval to limit results on specific encounter types and improved performance.

**MCKESSON SQL CONSULTANT, VANCOUVER COASTAL HEALTH**

Dec 2015 – Jul 2016

VCH requested several KSQL reports to move their organization towards closed loop medication management and barcoded medication administration.

- Developed an operating and contingency report which would output medication dosing details for a given time range to a file. To accomplish this task my implementation had to recreate the patient MAR for various order parameters (schedules, frequencies, multi-ingredient, etc) using only SQL.

- Developed an inventory management report to output to a file patient dosing data with aggregated quantity totals.
- Developed an audit report to identify patient orders that did not meet the criteria of the operating and contingency report. This report was formatted to be viewable from within the system or printed to a file.
- Developed an audit report to identify patient orders that should be included in the operating and contingency report but currently flagged for traditional fill list.

#### **CERNER CONSULTANT, TRI-CITY MEDICAL CENTER**

Dec 2014 – Oct 2015

CureMetrix and Symphony Corporation were contracted to implement a Tableau based reporting solution for various departments in the hospital. As part of a 4 member engineering team my task was to configure automatic extraction of data from Cerner Millennium and transmit data files to a networked drive so it could be consumed by end user reports.

- Developed CCL data extract report which provided the source data for Sepsis and Credentialing Dashboards. This involved Cerner solutions for nursing, pharmacy, laboratory, surgery, medical coding, and registration. Easily one of the most complex CCL programs I have written, the final report included over 5400 lines, 27 subroutines, and 60 table joins.
- Developed CCL data extract report for Operating Room Utilization Dashboards which involved surgery data tables with details from procedures, attendees, perioperative documents, and surgical case history.
- Designed and developed a Unix shell script to transfer data files (FTP) from Cerner backend to remote server. Built into the script was robust and configurable error handling which would retry if the connection could not be made and only delete the source file after a successful transfer.
- Using Cerner's OpsViewScheduler application configured data extract and file transfer jobs for the various reports based on client preferences.
- Designed and developed Java based extract for reporting Sotera ViSi Mobile waveform data.
- Designed and developed CCL data extract for CureMetrix to report on mammography data.

#### **SR. SOFTWARE ENGINEER, CERNER CORPORATION**

Aug 2004 – Jul 2013

As a software engineer at Cerner my responsibilities involved all aspects of software development for the PharmNet and RxStation solutions. Tasks involved database design, back-end, middle-ware and front-end coding, requirements procurement, debugging client issues, and pre-release testing.

- Worked with eAudit Solutions to develop an interface for collecting 340B reimbursement data leading to \$660,000 yearly recurring revenue.
- Enhanced RxStation's Java based reporting capabilities using open source component JasperReports.
- Developed data extract programs for integration of RxStation with Pandora Reporting.

- Added new capabilities to PharmNet Clinical Reporting subject areas in Discern Analytics.
- Improved performance of various CCL programs for RxStation and PharmNet using Cerner best practices and analysis tools (CCLQUERY, DM\_SQLPLAN, etc).
- Provided 24x7 support on a rotating basis with other team members.
- Created MS SQL database and stored procedures for running RxStation in a non-Cerner environment.

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EDUCATION

**IOWA STATE UNIVERSITY – B.S. COMPUTER SCIENCE**  
**GRADUATED MAY 2004**

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PORTFOLIO

SEE EXAMPLES OF MY WORK AT [RYANPEDALS.COM](http://RYANPEDALS.COM)