

RYAN PEDERSEN

OBJECTIVE Providing clients with the highest quality software consulting services. I specialize in analytics solutions for Oracle Health EHR and share its mission to enhance delivery of health services and improve patient outcomes.

SKILLS Cerner Command Language (CCL), Cerner MPage, Cerner Smart Templates, Java, Android, Eclipse RCP, PHP, JavaScript, AngularJS, JSON, MySQL, MSSQL, 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

EXPERIENCE **ORACLE HEALTH EHR CONSULTANT, ALKU**

Sep 2017 – Current

Developed analytics capabilities for the Department of Defense EHR modernization project (MHS GENESIS).

- Designed and developed reports for the following Oracle Health solution groups: Dental, Emergency Services, Health Information Management Coding, Immunizations, Infection Control, Laboratory, Materials Management, Medication Administration, Medication Reconciliation, Nutrition, Patient Administration, Pharmacy Inpatient, Physician Handoff, Radiology, Referral Management, Retail Pharmacy, Scheduling, Staffing, Surgical, and Women's Health.
- Developed Cerner Smart Templates for antibiotic administrations, microbiology results, anticoagulation time in therapeutic range, and home medication list.
- Developed a new Cerner MPage dashboard for command center awareness on key performance metrics.
- Developed an Opioid Clinical Decision Support Tool used in reducing adverse medical events related to pain management.
- Developed a microbiology susceptibility report which increased identification of multidrug resistant organisms by ~1500% for two of the DoD's largest sites.
- Supported go-live for the DoD's Global Respiratory Pathogen Surveillance Program by replacing 23 of their legacy reports.
- Created a unit testing framework for CCL.

CERNER MILLENIUM CONSULTANT, PRAXIFY

Jul 2016 – Sep 2017

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.

- Designed and developed MPage Web Service CCL reports to replicate the following PowerChart modules: Allergies, Diagnosis and Problems, Documentation, Follow

Up, Physician Handoff, Health Maintenance, Immunizations, Message Center, Interactive Flowsheets, Orders, Patient Education, Patient Lists, and Scheduling.

- 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.
- Developed CCL for editing RTF Clinical Note content.

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 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 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 MILLENNIUM 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.

- 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.
- Created MS SQL database and stored procedures for running RxStation in a non-Cerner environment.

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

PORTFOLIO **SEE EXAMPLES OF MY WORK AT RYANPEDALS.COM**