

Michael Driscoll

COMPUTER SCIENCE · SOFTWARE DATA ENGINEER

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Summary

I am an Oracle Data Engineer/Systems Designer at USG Corporation and attend Georgia Institute of Technology as a graduate student in CS, specializing in Machine Learning. I have nine years of experience working on Oracle E-Business, focused most especially in AR, Order Management and Advanced Pricing. I have developed a number of programs to analyze data, from pricing predictions to customer classification. While my primary role is as a developer, I have successfully worked as a Scrum Master, Project Manager, Release Manager, UAT Lead, and Mentor while performing my developer duties.

Education

Georgia Institute of Technology

M.S. IN COMPUTER SCIENCE - SPECIALIZATION IN MACHINE LEARNING

2019 - 2022

University of Illinois at Urbana-Champaign

B.S. IN ELECTRICAL ENGINEERING

2007 - 2011

Illinois Mathematics and Science Academy

2004 - 2007

Experience

USG Corporation

Chicago, IL

ORACLE DATA ENGINEER / SYSTEM DESIGNER

Nov 2017 - Present

- Instrumental in the creation of an operational data store (ODS) by deciding on what data should be included from Oracle, creating views for easier business use, teaching users Tableau, and managing transfer of data.
- Identified key customer characteristics to segment customers into different support tiers by analyzing previous customer data including sales history, support needs, "stickiness", and other factors.
- Designed the framework in Oracle for EDI 855/870 & 856 PO Acknowledgements and Advanced Shipping Notifications, utilizing common packages and code for quick deployment, bringing the first customers into production within two months of initial development.
- Release Managed five go-lives and stabilizations involving 30 different plants and warehouses and a team of 20 developers, business analysts and business owners for the release of new Bills of Ladings, Plant Transfer Orders, and Customer Notifications.
- Lead the UAT of the final major release of Order to Cash at USG involving 25 individuals over five different tracks.
- Created an extraction tool to send customers regular updates to their pricing to keep their systems up to date.
- The Oracle Pricing SME helping junior developers and business teams understand Oracle pricing on dozens of projects and enhancements.
- Lead the UAT of the final major release of Order to Cash at USG involving 25 individuals over five different tracks.
- Primary and only on-site Liaison with USG's Canadian division, CGC, during the Order to Cash Order Management go-live providing direct support to 20 CSRs in three locations.
- Supported and created new automation tools for USG including the automation of thousands of credit corrections with UIPath and enhancements to CSR tools using Ratchetsoft to streamline order creation and customer service.
- Project Managed USG's IT Symposium, an all-day conference with three tracks of presentations by external vendors for the department to learn and socialize, also building 20 bikes for the Boys & Girls Club and a donation of \$2,000

USG Corporation

Chicago, IL

PROGRAMMING ANALYST

Oct 2014 - Nov 2017

- Developed a thorough validation process in PLSQL to prevent any incorrect invoices from reaching the customer before transmission, resulting in customer complaints decreasing by 80%.
- Scrum Master of an Agile team that migrated receivables lockbox processes between banks, primarily focused on successful migration of EDI 823 Lockbox integration of matched payments to invoices from the bank with a 80% success rate, allowing for four FTE temps to be moved to other work
- Led a team of five consultants and employees over a year long project to successfully migrate EDI 810 Invoicing transmission for 36 existing customers, each with unique and conflicting requirements representing 90% of the company's seven figure revenue and over 1000 invoices daily, from a legacy Mainframe system to Oracle. Proactively managed vendor relationships with the EDI provider & business leadership to negotiate defect resolution and requirement gathering from customers over the course of six months.
- Developed the framework in Oracle for EDI 810 invoicing allowing for adaptability for additional customers to be quickly onboarded. Within a month after stabilization four new customers were added to EDI, worth over \$5MM
- Developed over 20 PL/SQL pricing and credit reports for the business using Oracle BI Publisher and JasperReports iReports utilizing a full variety of various SQL calls and statements
- Regularly supplied the business with analysis of the performance of the systems and how customers and sales reps used Oracle pricing implementation
- Created numerous full PL/SQL stored procedures, utilizing packages, functions, sequences, and archival

USG Corporation

TECHNICAL ANALYST

Chicago, IL

Sep 2013 - Oct 2014

- Responsible for leading Hyperion and MDS installations completed ahead of schedule
- Migrated PVCS from Unix to Linux.
- Maintained, developed, configured and analyzed Single System and Oracle EBS Environments.
- Lead the migration of a major tool, PVCS, from Unix to Linux.

Emtec, Inc.

ORACLE CONSULTANT

Chicago, IL

Apr 2012 - Jun 2013

- Designed Load Testing software for stress testing an Oracle Hyperion Financial Management (HFM) environment with reports and SmartView allowing for a decrease in costs of over \$10,000
- Adapted the Load Testing software to include functionality for Calcs, Planning Form, and Business Rules, also to work in Oracle Hyperion Planning, and to simultaneously test users from an international office
- Analyzed results from Load Testing software to identify potential defects in database setup increasing performance of servers by 30% and reducing potential downtime from 75% to none

Starfire Industries

ELECTRICAL ENGINEERING INTERN

Champaign, IL

May 2011 - Jan 2012

- Designed and fabricated radiation sensitive capacitors and transistors.
- Developed means to transmit capacitor and transistor measurements using RFID tags

Honors & Awards

EMPLOYER

- 2020 **USG VIP Award**, Invoice Accuracy Team Award
- 2018 **USG VIP Team Award**, OTC - In2Cash Implementation Team
- 2018 **USG VIP Award**, 2017 Quarterly Officer Discretionary Award for Fourth Quarter

Chicago, IL

Chicago, IL

Chicago, IL

Projects

ebayScraper (github.com/driscoll42/ebayScraper)

PERSONAL

- A web scraper that scrapes eBay for sold listings of any given search and analyzes the output.
- Calculates the profits for eBay, PayPal, the sellers, and produces a series of charts to detail pricing trends, comparison of different brands, comparing similar products, trendlines, and more analytics.
- Featured on numerous news outlets such as Bloomberg, PC World, PC Magazine, Tom's Hardware, and others.

Scholarship Validation and Scoring Program

CHICAGO ENGINEERS' FOUNDATION

- Automates the validation of eligibility of applicants to scholarship by comparing their addresses to USPS data, ensures their address is a valid home address, checks their major, and scores
- Automates the scoring of non-subjective sections of application (GPA, SAT/ACT), counts and scores the type coursework the applicant has done.
- Determines if any reviewers are overly generous or harsh by comparing their scores to others and adjusting their scores by a factor.

Extracurricular Activity

Chicago Engineers' Foundation

Chicago, IL

AWARDS CO-CHAIR (2017-PRESENT), SECRETARY (2019), 2ND VICE PRESIDENT (2020-PRESENT)

2013 - PRESENT

- Presented at dozens of high schools to encourage students to pursue engineering.
- Replaced the former paper based application process with a web portal. Applications increased from 20/year to over 150/year.
- Developed custom review software to reduce errors from manual review by validating applicants submissions and checking their scores, allowing reviewers to only review the subjective portion, cutting review times in half.
- Fund-raised over \$10,000 for the Foundation to support scholarships.

Boy Scouts of America, Troop 165

Germantown Hills, IL

EAGLE SCOUT & SENIOR PATROL LEADER

1999 - 2007

- Order of the Arrow Ordeal Member
- Eagle Scout Project: Led a group of twenty volunteers to install five pieces of playground equipment

Skills

Data Science/Analytics	Google Analytics, Scikit-Learn, Pandas, Keras, Tableau, Matplotlib
Back-end	Oracle E-Business (AR, QP, OM, SCM), Spark, Hadoop
Programming	Python, SQL, PLSQL