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**Ellen Lull**

LinkedIn  
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Information Systems Professional and Data Scientist. Experienced in Data Warehousing, Application Development, Business Systems Analysis and Audit. Currently completing a Master of Science in Data Science degree.

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### **Programming Languages, Operating Systems and Software:**

- SQL, Teradata (10+ years), SAS, Informatica, IBM Campaign Management Tool (Unica), ERwin
- UNIX Scripting , Python, R, Unix / Linux
- Matplotlib, Data Visualization, ggplot2
- VI / VIM, Jupyter Notebooks, VSCode
- MVS/TSO, COBOL, FOCUS, Easytrieve, SyncSort, JCL, REXX, ISPF, CLIST, ESP scheduler, NOMAD II, CA Scheduler, Fileaid
- Microsoft Excel, Word, Visio, Powerpoint, Outlook, Access

### **Education:**

**MS, Data Science**, Southern Methodist University. Expected Graduation December 2021

#### ***Data Science Skills:***

- Python, R, SAS.
- Machine Learning, Linear Regression, Logistical Regression Classification, Time Series, Decision Trees/ Random Forests, Clustering, Principal Component Analysis, Linear Discriminant Analysis.
- TensorFlow, Pytorch, Keras
- Data Visualization using Matplotlib, Seaborn, ggplot2

**BS, Business Administration**; Computer Information Systems, California State University, East Bay

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### **Professional Experience:**

**Wells Fargo Bank** 2014-present

#### ***Analytic Consultant / Database Marketing:***

- Developed Teradata Data Marts for Enterprise Marketing. Source table extracts include data from Teradata, SQL Server, Oracle, SAS and DB2.
- Development and maintenance of Unix Scripts supporting Email Marketing Campaigns. Scripts process privacy scrubs, uploads to vendor for campaign mailings, contact history tracing and reporting.
- Business Partner support for IBM Campaign Management Tool (Unica) and the Data Mart tables used in marketing campaigns.
- Projects used Agile Methodology and JIRA for Stories and support tickets.
- Maintained and supported SAS applications used for Marketing and Finance.
- Large projects included: Development of Digital Home Lending Leads Datamart, Home Lending Datamart, Teradata Encryption, Database migration from Oracle to Teradata platform.
- Mentored domestic and offshore contract resources.
- Projects included gathering and analyzing requirements, designing applications, coding, testing, implementing, progress reporting, production support, end-user support and formal documentation for all phases.

**Charles Schwab and Co, Inc. (1996-2014)**

***Software Application Engineer / Business System Consultant (2008 - 2014):***

**Business Systems Consultant**

- Analyst for projects involving: addition of new tables to a data warehouse, regulatory applications using data warehouse data and data warehouse maintenance
- Created Software Architecture documents (SAD), Use Case documents, Technical Design documentation, Quality Assurance test plans, and Implementation documentation for more complex projects
- Created data models using ERwin software for data warehouse tables, Teradata table design and SQL query logic to be used during development.
- Provided overall project management for projects that were not assigned a full time project manager. Presented projects at governance meetings and to design review boards.
- Provided testing and managed User Acceptance Testing (UAT) for data loaded into new data warehouse tables.

**Software Application Engineer/ Data Warehouse Developer**

- Developed data feeds and jobs to Extract, Transform and Load (ETL) data for a UNIX / Teradata Data Warehouse.
- Developed Informatica Workflows and Mappings to load Teradata Data Warehouse tables. Used Pushdown, Fastload, Multiload and TPT data load connections within Informatica.
- Developed Mainframe source data extract jobs. These jobs unloaded DB2 tables, reformatted data, fixed data issues and transmitted files to the data warehouse. . Scheduled jobs using ESP Scheduler.
- Served in a lead role for support of mainframe applications within the data warehouse group.
- Maintained standards and provided leadership for contract and offshore mainframe developers. Provided quality assurance and provided installation approvals.
- Provided second level production support, 24x7, for more complex issues.

***Consultant / Analyst (2008) Operations - Operational Services Control***

- Performed business analysis to determine the functions of end-users in the TSO environment. Documented business functions and the role of mainframe data for several of the company's enterprises.
- Developed supporting applications for analysis in the mainframe and distributed environments. Applications were written using COBOL, FOCUS, Easytrieve, SyncSort and JCL.

***Technical Director (2005 to 2007) /Consultant (2003 - 2005), Internal Audit***

- Developed and implemented continuous monitoring systems to ensure that financial data was accurate and within expected thresholds. Developed applications in the mainframe and distributed environments depending on source data platform. Programming languages included: COBOL, FOCUS, Easytrieve, SyncSort, JCL, REXX, Business Objects, Microsoft Access and Excel.
- Created applications for extracting and analyzing large quantities of data. Used these applications for forensic investigations to identify atypical transactions.
- Performed audit testing and reporting that was effective in increasing the accuracy of business applications.
- Validated data that appeared on external reporting disclosures such as quarterly and annual reports to support Sarbanes-Oxley compliance. Validated data that fed into the PeopleSoft financial system.

- Collaborated with other departments to perform testing of new business applications to ensure data accuracy.
- Analyzed business and financial applications by reverse engineering job streams. Prepared formal documentation and presentations to upper management using Visio, Powerpoint and Excel.

***Consultant, Sr. Analyst/Programmer*** (1996 - 2001)

- Developed, enhanced and maintained batch and reporting applications in the MVS/TSO environment using JCL, FOCUS, COBOL, Easytrieve, SyncSort, REXX, DB2 extracts, CA Scheduler, Microsoft Access and Microsoft Excel.
- Developed data feeds and jobs to Extract, Transform and Load (ETL) data for a UNIX / Oracle Data Warehouse.
- Projects included gathering and analyzing requirements, designing applications, coding, testing, implementing, progress reporting, production support, end-user hot-line support and formal documentation for all phases.
- Provided end-user hotline support and on-call support for production applications.

***Innovant / Visa, Consultant, Sr. Analyst/Programmer***, (2000)

Developed, maintained and enhanced batch applications in the MVS/TSO environment using COBOL, JCL, REXX, and ISPF Panels. Application development included gathering and analyzing requirements, designing, coding, testing, implementing and providing production support. Performed quality assurance cross-testing of applications developed by other team members. Created system documentation and training for on-line REXX/ISPF applications. Wrote technical documentation on REXX to be used as training material for other team members.

***Pacific Bell, Consultant, Analyst/Programmer*** (1990 - 1992 & 1995 - 1996)

Developed and maintained on-line and batch applications using VM/CMS, FOCUS, REXX, COBOL, PL/I, XMENU, PRO\*REXX, Oracle, VM Tape and PL Sort. Prepared formal requirements documents, design documents, testing plans, installation plans, systems support documentation and end-user documentation. Developed programmer utility programs. Provided end-user support hotline for on-line reporting applications.

***Apple, Consultant Analyst/Programmer*** (1993 – 1995)

Developed on-line and batch applications including: reporting applications, user interfaces and database update applications using MVS/ TSO, JCL, NOMAD2, DB2, and COBOL. Development included gathering and analyzing requirements, designing, coding, testing and implementing. Prepared formal systems and end-user documentation.

***Chevron Information Technology Company, Programmer/Analyst***, (1988 -1990)

Developed, maintained and enhanced on-line and batch applications using VM/CMS, REXX, Nomad2, Nomad2 Windows, Nomad2 shared databases and EXEC2. Development included requirements analysis, design, coding, testing and implementing. Provided technical support and coordinated product upgrades for several software applications

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**VOLUNTEER ACTIVITIES:**

**University of California / Cooperative Extension 4-H Youth Development Program** (2012-2017)

Lead a 4-H Club of approximately 20 Adult leaders and 35 Youth members, Served as County Area Representative to plan youth public speaking events and community service activities. Held Countywide Vice President Board Position