

1/13/2020

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## Tim Green

### SUMMARY

A data science technology leader with 25 years of experience developing and deploying data management platforms across a variety of industries, resulting in new productization of data assets and efficiency improvements.

### TECHNICAL EXPERTISE

Languages: Python, R, Java, SQL, Delphi, C, C++, C#, ObjectiveC, J2EE, JavaScript, HTML/CSS

Data Platforms: Hadoop, Spark, Hive, MySQL 5, Oracle 11g, MS SQL Server, Postgres, Amazon S3

Operating Systems: Linux, Windows, Unix, OpenVMS

Statistical Tools: Sci-kit Learn, SciPy, StatsModels, Weka, RapidMiner, SAS, SPSS, R

### EDUCATION HISTORY

2013-2019                      PhD, Informatics with emphasis in Health  
University of Missouri Columbia  
Columbia MO 65211

1991-1994                     BS Computer Science  
Northwest Missouri State University  
800 University Drive  
Maryville, MO 64468

### EMPLOYMENT HISTORY

#### 2017-Present

EquipmentShare.com  
4205 Interstate 70 Dr SE, Columbia, MO 65201  
573-299-5222

#### *Chief Data Scientist*

- Responsible for the development of a data science, predictive analytics, and business intelligence program for the leading heavy equipment industry telematics platform.

#### 2019-Present

University of Missouri Data Science and Analytics program

#### *Instructor*

- Responsible for the development and teaching of an online health data science and predictive analytics course, covering health ethics and regulations, and basic and advanced statistical methods for health data analysis.

#### 2011-2017

Tiger Institute for Health Innovation, University of Missouri Healthcare/Cerner Corporation  
2800 Rockcreek Pkwy, Kansas City, MO 64117  
816-221-1024

#### *Research Strategist (2014-2017)*

- Responsible for the Tiger Institute Research Initiative and its four pillars: exceptional access to data, research IT infrastructure, informatics support group development, and joint project and grant proposals

*Software Architect/Manager (2011-2014)*

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- Responsible for architecture and development of innovative new healthcare software, deployment and implementation, and benefits analysis
- Lead a team of 10, including software engineers, architects, team lead, solution designer, quality assurance analyst, and project manager
- Manage team budget

### 2006-2011

MCH Strategic Data, Inc.  
601 E. Marshall St., Sweet Springs, MO 65351  
660-335-6373

#### *IT Manager/Database Administrator*

- Lead 6 person IT team, including data programmers, software developers, database administrators, and systems administrators
- Responsible for future planning of company-wide hardware and software architecture and purchases.
- Responsible for Oracle RDBMS environment, including installation, administration, backup/recovery, and development. Experience with ASM, RAC, RMAN, and Oracle VM.
- Research, recommend, purchase, and install commercial off the shelf and open source software: CRM system, content management systems, ETL tools, Sun Java Application Server, source code version control, Oracle Virtual Machine environment
- Perform development as needed in Java/J2EE, Oracle PL/SQL, and other languages as necessary.

### 1997-2006

CARFAX, Inc.  
2301 Maguire Blvd, Columbia, MO 65201  
573-874-0834

#### *Agile Development Coach/Manager (2004-2006)*

- Formed and led a team of 8 agile developers and 1 quality assurance specialist.
- Perform role of Agile Coach, ensuring adherence to Agile principles and practices, including small releases, unit testing using JUnit, acceptance testing, and whole team and customer interaction.
- Acted as lead architect, working closely with Data Services director and other customers to define needs, write stories, and guide team towards correct architectural decisions.

#### *Manager, Database Management Group (2000-2004)*

- Led a team of 10 DBA's
- Developed and maintained the company's Oracle database systems, including data warehouse, e-commerce, and operational data stores in a 24x7 environment.
- Researched and recommended purchase of new hardware, software, and licenses related to the Oracle environment.
- Monitored performance of all database systems, and performed application tuning when necessary.
- Managed project lists and communicated project status to stakeholders. Reviewed new requirements, participated in business requirements gathering, and made recommendations on feasibility and difficulty.

#### *Programmer/Analyst (1997-2000)*

- Designed, developed, and deployed applications using Oracle development stack.
- Developed backend processing for Cybersource/Paymentech Credit Card Processing System.
- Designed and developed high availability database structures.

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### 1998-June 2008

InnerVision

Sole proprietor and developer

- Developed and brought to market Apollo Pro, one of the first GUI tools on the market for interacting with the Oracle database. Written using Delphi and Dunit. [www.apollopro.com](http://www.apollopro.com)
- Developed and released PL/Unit, a lightweight unit testing engine for Oracle. [www.plunit.com](http://www.plunit.com)

### 1996-1997

Missouri Department of Health (Southwest Missouri State University)

P.O. Box 570, Jefferson City, Missouri 65102

573-751-6400

*Computer Information Specialist III*

- Contracted to the Missouri Department of Health via Southwest Missouri State University to maintain and upgrade the Missouri Immunization Tracking System (MITS) written in FoxPro.
- Implemented a data driven immunization periodicity algorithm to enhance ease of use and extensibility.
- Participated in the conversion of MITS data to MOHSAIC, a statewide, centralized information tracking system using Delphi and Oracle.

### 1995-1996

Linn State Technical College

One Technology Drive, Linn, MO 65051

573-897-5108

*Instructor, DBA, System Admin, Network Admin, PC Support*

- Taught upper level classes to final year students: RPG programming, Pascal Programming and Algorithms, PC Support and Repair, Networking using Novell
- Responsible for administering an AS/400 system with 100 users.
- Administered the campus DB/400 database and wrote custom extensions using C and SQL precompilers.
- Performed role as LAN administrator and PC support.

### PUBLICATIONS

1. Green TA, Whitt S, Belden JL, Erdelez S, Shyu C-R. Medical calculators: Prevalence, and barriers to use. *Comput Methods Programs Biomed* [Internet]. Elsevier; 2019 Oct 1;179.
2. Green TA, Shyu C. Developing a Taxonomy of Online Medical Calculators for Assessing Automatability and Clinical Efficiency Improvements. In: *MedInfo 2019 proceedings*. 2019.
3. Becevic M, Green T, Walker LY, Hicks L, Mutrux ER. Are there other options: Child and Adolescent Telepsychiatry Services for Rural Population. *J Health Manag*. 2016;18(2).
4. Green TA, Phinney M, Shyu C. Automatic Workflow Extraction Using Sequential Pattern Mining and Electronic Medical Record Usage Data. In: *AMIA Annual Symposium proceedings*. 2016. p. 1412.
5. Green TA, Shyu C. Integrated Clinical Decision Support Systems : Systematic Review and Classification of Online Medical Calculators. In: *AMIA Annual Symposium proceedings*. 2015. p. 1486.

### SELECTED COURSEWORK

**Tim Green**

- Topics in Computer Science - Big Data – in depth discovery of Hadoop and the Hadoop stack - MapReduce, HDFS, HBase, Hive, and Pig
- Data Mining and Knowledge Discovery – learn data mining and machine learning techniques for classification and clustering, both supervised and unsupervised, such as association rule mining, sequential pattern mining, neural networks, linear regression, decision trees, random forest
- Data Visualization – theory and applied learning in data discovery techniques through data visualization using programming techniques.
- Applied Statistical Models I - in depth study of multi-variate linear regression methods
- Research Methods in Informatics – learn to write an R01 grant proposal, with in depth discussions around development of significance, innovation, and research methodology
- Database Management Systems I – study of RDBMS theory
- Topics on Data Science and Analytics in Biomedicine – Application of supervised and unsupervised learning techniques for biomedical machine learning