

Raymond K Roberts

Summary:

Raymond is a Data Science Director/Team Leader experienced in developing and implementing innovative, dynamic, solution-driven analytics focused on the customer.

He is proficient in training and managing teams capable of supporting an enterprise throughout the entire data management lifecycle, to produce truly data driven processes and products. Team creation and management resulting in teams capable of; detecting data integrity issues, performing root cause analysis and communicating the issues to cross functional teams, producing analytical process and innovative strategies, to improve efficiencies by harnessing the power of big data using the latest tools and analytical methods. Lead the analytics and interpretation of big data to develop data-driven recommendations to solve business challenges in real time. Collaborate with multi-disciplinary teams of engineers and analysts to gather and interpret unstructured data using scientific methods and developing and testing models.

Models are vital to prediction capabilities. Leading the creation of tools and applications (and processes) that enable advanced analytics solutions within the enterprise. Leads teams that create conceptual prototypes to test new concepts, develop advanced analytics systems to solve challenging business problems, deploy tools and systems into the business and monitor their effectiveness and usefulness. Responsible for leading research and recommended use of purchased and open-sourced technologies and concepts that support the creating of tools and systems for use by technical and non-technical users. Specializing in latent construct/variable analysis and model design.

Analytical models can never exceed the quality of the data inputs. Raymond is experienced in designing data architecture and data modelling solutions by identifying enterprise information needs and translating them into technical requirements that align with business requirements.

Analytical efforts are not complete until they are communicated. Raymond is experienced in building infrastructure for data reporting and dashboards. He is competent in utilizing historical data and ongoing analysis to provide data driven insights and inform strategic business decisions.

Raymond is a local US Citizen and available immediately to interview and start.

Overview:

- Seeking for challenging opportunities to develop and implement analytical process and innovative strategies in a leadership role, to align analytical processes and outcomes with enterprise level business requirements.
- Specialties: Strategic Data Management, Statistical Modelling, Time Series Analysis, Causal Analysis, Machine Learning, Predictive Analytics, Strategic Planning, Operations and Project Management, Applied Economics, among others.

Software Technology Competencies (in order of level of skill):

- **Database:** SQL, PostgreSQL, Access, Cassandra, Mongo DB, Hive
- **Data Science Languages:** R, Python, Scala, Haskell, ML, Scheme/Lisp/Racket
- **Version Control:** Github, Git, Delta Lake
- **Collaborative IDE and Editor:** PyCharm, VSCode
- **Data Analysis Platforms:** R, SAS, Excel, SPSS, STATA
- **Computer Programming Languages:** Python, Java, C#, Groovy

- **Virtual Machine:** VirtualBox, Vagrant
- **High Performance Computing:** HADOOP, PIG, HIVE, Spark, Cassandra, Kafka, Airflow, MLflow
- **Cloud Platform Solutions:** AWS, Azure, GCP
- **Shared Knowledge:** Confluence
- **Container Solutions:** Docker, Kubernetes

- **Data Presentation:** Tableau, Power Point, Excel, Binder 2.0
- **Software Development Tools CI/CD:** Jenkins, Gradle, Maven
- **Data (Survey) Gathering:** Qualtrics, eSurvey Pro, Survey Monkey
- **Front End Web Development:** HTML5, CSS, Bootstrap, JQuery, JavaScript, Flask
- **Project Management:** Jira, Rally, Smartsheet, CA-Agile

Education:

- Master of Science in Data Science 08/2020
University of Wisconsin-Oshkosh Oshkosh, WI
- Data Analysis and Applied Economics 08/2017
University of Wisconsin-Whitewater Whitewater, WI
- Bachelor of Sciences in Business Administration 12/2015

University of Wisconsin-Parkside Kenosha, WI

- Operations Research, Mathematics and Computer Analysis 12/2003
- US Coast Guard Academy New London, CT

Certifications:

- US Chess Federation Certified Tournament Director – 2016
- Insurance Individual Agent, Life - 2016
- Real Estate Salesperson – September 2010
- Real Estate Broker Manager – September 2010

History:

General Electric Healthcare, May 2018 - Present

Data Scientist -Direct Hire

- Collaborate with other engineers and senior business leaders to develop advanced models to solve complex business and logistical challenges.
- Actively coach and develop junior level engineers
- Lead optimization projects and influence senior business leaders through the creation of innovative models and technical approaches
- Create novel analytical solutions submitted for patent and trade secret
- Review code of peers, refactoring code into alternative languages for reliability testing

General Electric Healthcare, November 2018 – May 2018

Data Scientist/Analyst -Contractor

- Develop logical flow charts for business, technical, and clinical operations using observational data
- Create, develop and maintain statistical algorithms needed to support analysis and strategic decisions for MR fleet management.
- Identify opportunities for design improvements by performing retrospective analysis of historical machine log data vs service dispatches, apply statistical and machine learning techniques to provide insights on data patterns, asset usage, and design characteristics to funnel product quality improvements.
- Produce statistical analysis of the data to support product quality improvement decisions.
- Produce data visualizations to demonstrate learnings and opportunities that support a wide range of stakeholders.
- Collaborate with Software and Hardware engineers to identify and address gaps in MR system monitoring.
- Collaborate with Software engineers to improve data quality including but not limited to data file structure, data formats and units, and frequency of logging.
- Collaborate and learn from peers within the Imaging business to ensure we leverage best practice and reduce duplicative work.
- Work with business and technical leaders to prioritize data needs and define new process improvement opportunities.
- Develop applications including remote monitoring and diagnostics across infrastructure.
- Develop, verify, and validate analytics to address customer needs and opportunities.
- Work alongside software developers and software engineers to translate algorithms into commercially viable products and services.
- Work with data engineers on data quality assessment, data cleansing and data analytics.

Phaistos LLC., Kenosha, WI

Aug 2013 – October 2018

Data Scientist

- Identified and communicated business information needs
- Develop and maintain the Enterprise Data Model while analysing and aligning with other business models
- Utilize historical data and ongoing analysis to provide data driven insights and inform strategic business decisions
- Improve current business processes through identifying opportunities for improvements and automation
- Defined and maintained key performance indicators for business segments with key stakeholders and built infrastructure for data reporting and dashboards
- Performed historical data analysis to provide data driven insights and inform strategic business decisions
- Detect data integrity issues, perform root cause analysis and communicate the issues to cross functional teams
- Liaise across various business units and data warehouse teams to define business requirements for business self-reporting tool

Phaistos LLC., Kenosha, WI

Jul 2008 – Jul 2013

Strategic Planner

- Oversaw operations management of business ventures: Real Estate Investment, Property Management, Project Management, Forex Currency Trading, IT Solutions.
- Oversaw strategic planning implementation.
- Managed projects related to IT implementation, business intelligence, business planning, systems development, strategic planning, resource allocation, and process development and improvement.
- Communicated with investors, defines scope, set deadlines, and approves reports for investors regarding the status of investments.
- Facilitated the information flow across investors and business ventures to ensure effective dissemination and timely feedback of data and information regarding opportunities and/or threats.
- Provided expertise and assistance in analyzing and compiling data for current and potential investors and partners
- Represented the company to external stakeholders and the community at large.

US Army

Charlie Company 2nd Battalion, 20th Group Special Forces, US Army, Grenada, MS

Feb 2003 – Jan 2010

Executive Officer

- Lead mission critical process improvement.
- Oversaw staff officers' responsibilities and ensured compliance.
- Assisted operational planning and coordination.
- Communicated and coordinated logistics with adjacent units and entities.
- Planned operations for missions.
- Oversaw data analysis and presentation.
- Managed logistics.
- Managed professional development.
- Assisted Company Commander on meeting mission intent.
- Managed and audited assigned personnel and equipment.
- Developed and evaluated professional development programs for soldiers.
- Provided data analysis for data-based decision-making.

Publications

- Book: Roberts, Raymond K. (2012). Objects for Deployment. Venture Ink Publishing.
- Blog: Medium.com- various writings on data science, technology and society
- Blog: Dev.to -various writings on data science, technology and society

Professional Memberships

- Data Management Association International -Wisconsin Chapter (DAMA WI)
- Project Management Institute Milwaukee SE Wisconsin Chapter (PMI MKE)
- Southeast Wisconsin Realtors Association 2012
- American Economic Association 2016

Community Service

- Speaker, US Coast Guard Academy, "Diversity in the workplace"
- Speaker, US Coast Guard Academy, "Transitioning from military to civilian" Community Service Involvement – Selected
- Member, Rotarians International, 2014
- Board Member, Kenosha Business Investment District Board 2014- 2017 (term)
- Grant Committee Chair, Wisconsin Arts Board 2013 Chair, World Fest Planning Committee, 2010
- Founder, Future Kings and Queens Kenosha
Volunteer Chess instruction program for elementary and middle school students in disadvantaged areas
- Board Member, International Crusades
Business Development and Sustainability models for Africa Outreach project