Ronald Reck

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SUMMARY

Active DoD Top Secret Clearance & FBI Counterintelligence Polygraph, creative UNIX/Linux specialist with two degrees in Linguistics, Experienced AI professional with a **specialization in Generative AI and Natural Language Processing.** Published author, enterprise architect can manage a team or solving the problems no one else can. Author of commercial ARTIFICIAL INTELLIGENCE software Predictive Analytics Framework on Amazon Web Service Marketplace/C2S (Released more than 8 years ago 01/21/2015). 18.+ Years of Amazon Web Services experience. AWS Marketplace publisher of 11 data products that have been online since 2019. Recent projects include advanced customer segmentation (AI), NLP on biomedical research (summation/AI) and FAERS compliance. Legal contract NLP/NLU (this is generative AI), docker swarm using Prometheus/Grafana, computer vision using OpenCV (machine learning), Advanced Artificial Intelligence and machine learning, language analysis using social network analysis and sentiment detection (AI)

CORE SKILLSET

Literally All UNIX & Linux (SysV /BSD) variants - SunOS, Solaris, CentOS/RedHat, SuSE, Ubuntu, Slackware

Relational (SQL), / NoSQL / RDF Databases: Virtuoso, MySQL/MariaDB, Couchbase, MarkLogic, MongoDB, Allegrograph, Oracle, PostgreSQL, SyBase, BDB

Languages: Python, R/RMarkdown, Perl, Shell**,** PHP, Tk, Sed, AWK, SQL, Pascal, C, Basic, LISP, Prologue, langchain expression language

Analytics: Predictive Analytics, Categorization, Generalized Artificial Intelligence, Machine Learning, Artificial Intelligence, Natural Language Processing, Regressions, PCA, Survival Analysis, GGPLOT, Shiny Server , LLM, transformers.

Participant: W3C Government Linked Data Working Group (invited expert), W3C Social Web XG (invited expert), W3C GRDDL Working Group (invited expert), StratML Working Group, W3C Social Web Incubator Group (invited expert status), Contributing Editor- Financial Information Services Division of the Software & Information Industry Association, Cognitive AI Community Group, Data Privacy and Controls Community Group, AI KR (Artificial Intelligence for Knowledge Representation) Community Group, Linked Data for Language Technology Community Group.

EDUCATION

EASTERN MICHIGAN UNIVERSITY *Master of Arts – English Linguistics*
- Linguistics - Computational linguistics, morphology/syntax, theoretical syntax.

- Natural Language Processing, computational & rule-based algorithms, information theory.

[WAYNE STATE UNIVERSITY](#) *Bachelor of Arts - English Linguistics*
- Linguistics - theoretical syntax, morphology, and semantics.

WORK EXPERIENCE

Technica Corporation - *Subject Matter Expert 09/23 – July 24*
- Service Award within 90 days of service.
- Onsite at **The Federal Bureau of Investigation** - global admin - Granted VAR, with CI-Poly
- Multiple required certifications and training. - (Child Abuse, Insider Threat, OPSEC, Privileged User, Media)
- Enterprise application support across enclaves.
- Design and implemented workflows, ATO, REST, automation, HAProxy, HA database, Atlassian Suite

[RRecktek LLC.](#) - *120+ Confidential Clients Including:*
Johson&Johnson, Department of Education - DHS Identity Credential & Access Management (ICAM) inside USCIS- Defense Technology Information Center (DTIC)(Fort Belvoir) - Transaction Network Systems -Victor Securities- Skye Suh PLC Yudrio Inc.- Eastman Kodak – Navanti Inc.

Consultant ~ 09/09 –Present
- Designed, implemented generative AI for Drug Discovery, profiling Alternative Use, FDA Drug Label.
- Designed, Implemented generative AI, funding grant awards for foster children placement.
- Designed, implemented generative AI capability for Immigration L-1 Visas using local LLM
- Designed, implemented GAN (generative AI) for leading luxury brands counterfeit detection, ML
- Designed, implemented NLP processing pipeline for abstractive / extractive summarization and NER Designed, implemented unsupervised categorization for customer (20k) segmentation.
- Designed, implemented vector based semantic comparison on 700k news articles.
- Designed, implemented, load, query. UI semantic modeling all FDA FAERS pharmacovigilance (25MM records ~ 252Gb). All schema elements in ICH ICSR E2B(R2). >1.1Billion triples. Shiny dashboard
- Designed and implement semantic modeling for vocabularies: Company Product Dictionary, and MedDRA versions 23-25, ISO3166, RDF, SKOS, RDFS, Mark Logic
- Designed and deployed complex enterprise monitoring solution based on Docker Swarm, Prometheus, Grafana. Used to monitor thousands of containers across multiple networks and environments.
- Designed commercial cloud based Predictive Analytics Framework leveraging python problem solvers, highly optimized R, robust Drupal capability, and Resource Description Framework visualization.
- Optimized R programming language using CAIRO, Tcl/Tk, and RMarkdown.
- Recommended and implemented automation of RedHat STIG hardening and best practices across a large government agency's Identity, Credential and Access Management component.
- Assembled and lead team for rapid development of advanced crowd-sourcing social media framework, with SMS & gamification   running under LAMP stack.
- Architected and deployed (devopts) automated machine configuration capability for Redhat & CentOS running under VMWare. Improvements to operating system security for PCI Compliance.
- Architected, managed and implemented trust-based system for determining information veracity (Drupal).
- Responsible for data modeling for multi-million-dollar project's data sharing product using RDF storage.
- Created extensions for using JIRA for timesheets and managing troubletickets
- Designed and implemented financial forecasting website for Reserve Studies (Drupal).
- Contributed to the design of cutting-edge white hat security methodologies.
- Technical writing and grammar for winning RFP's and well received RFI's.
- Developed system for alignment of sentiment in SEC filings using R and RMarkdown.

- SanCorpConsulting - Chief Technology Officer: / Senior Technical Advisor
  - Inside the Department of Defense Joint Aritificial Intelligence Center (JAIC)
- Inxight Federal Systems – SAP Government Support and Services - *Lead Client Manager*
- Collexis Inc. ~ Chief Technology Officer- Americas
- Factiva Consultant
- Intelligence Community Metadata Working Group Staff
  - Senior Software Engineer ~ Office of the Director of National Intelligence (ODNI)
- Technical Lead - Seattle LInX Project for Naval Criminal Investigative Service (NCIS)
- Science Applications International Corporation - Senior Software Engineer
- University of Maryland, Institute for Systems Research - Project Leader –
- Winstar Communications Inc. - Principal Information Architect
- Federal Communications Commission - Webmaster and Senior UNIX Administrator
- The Council of Better Business Bureaus - Senior Technology Expert - Internet Systems
- Ford Motor Company's WWW Org - Data Center Administrator, New Media Architect

AWARDS, CERTIFICATIONS & PUBLICATIONS

See http://www.ronaldreck.com