Glenn Wright, MPA

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Core Strengths:

* Thirteen-plus years of professional data analysis and programming experience.
  + Expert-level mastery of SAS and SQL, including Base SAS, Teradata SQL, Enterprise Guide, Business Intelligence, Enterprise Miner, and Text Miner.
  + Professional use of R on several large projects. Basic familiarity with many common packages, including dplyr and tidyr.
  + Development and maintenance of predictive statistical models in SAS Enterprise Miner using electronic health record data.
  + Invited Speaker in Databases & Data Integration: Glenn Wright, “Probabilistic Record Linkage in SAS,” *Western Users of SAS Software*, San Francisco, California, 2011.
  + Best Contributed Paper in Databases & Data Integration: Glenn Wright and Denis Hulett, “Transitive Record Linkage in SAS using Hash Objects,” *Western Users of SAS Software*, San Diego, California, 2010.
  + Presentations to Kaiser's YHAT statistical study group on proportional hazards modeling in SAS, random forest models in Python, serial auto-correlation bias in partitioned data, and memory-backed data frames in R.
  + SAS Institute trainings on text mining (2014), data mining (2013), proportional hazards modeling (2012), and Bayesian analysis (2012.)
  + SAS Certified Advanced Programmer.
  + Daily work with electronic health record and claims data.
  + Probabilistic and deterministic matching of Medi-Cal, California Vital Statistics, and Quest Diagnostics data with no common identifiers, using regular expressions, edit-distance algorithms, and hierarchical agglomerative clustering.
  + Advanced use of SAS hash objects, PROC SQL, and the SAS macro language.
  + Co-authored papers for the *American Journal of Public Health*, *Journal of the American Geriatric Society,* and *Health Care Financing Review.*
  + JavaScript for several large, independent projects, both front-end and back-end. Mastery of most ES6 and later features. Use of Babel, React, React-Redux, Express, and D3.
  + Scientific Python Stack for several independent projects, including NumPy, SciPy, SciKit Learn, NLTK, BeautifulSoup, and Keras. Mastery of most Python 2 and 3 features.
  + Additional software tools and programming languages including GitHub, Tableau, C/Arduino, Java/Processing, ArcGIS, Microsoft Office, and Microsoft Access.
* Leadership and communication.
  + Contributed story to an anthology that won a 2015 Independent Publisher Book Award.
  + Volunteer for Curiosity Hacked (formerly Hacker Scouts), childrens' technology and arts nonprofit.
  + Two years as vice president, house president, and ombudsperson for a multi-million dollar nonprofit housing corporation.
  + Competent Toastmaster public speaking award; Vice President for Education of California Department of Public Health Toastmasters club.
  + Eagle Scout, Troop 476.

Professional Experience:

* Data Scientist / Senior Programming Consultant, Kaiser Permanente (2011 – present)
  + Daily analysis of electronic health record data.
  + Developed predictive models for blood glucose (HbA1c) levels and participation in weight loss programs.
  + Developed topic model for patient-doctor secure messaging.
  + Assisted with development of statistical models to predict complication rates for thyroid surgery and enrollment in smoking cessation classes.
  + Developed unified, cross-regional SAS / SQL / Tableau framework for Stage 1, 2, & 3 Meaningful Use reporting.
  + Lead programmer for medication reconciliation, outpatient summary of care transmissions, incorporating laboratory tests results as structured data, release of patient health information, electronic medication administration records, access to imaging results, and extraction of General Radiology Improvement Database transmissions.
  + Reporting liaison to Kaiser Permanente Colorado and Kaiser Permanente Ohio.
* Independent consulting, California Family Health Council (2012 – 2013)
  + Data structuring and analysis for The InTOUCH Study: Increasing Retesting for Chlamydia and Gonorrhea.
* Senior Statistician / Programmer, California Department of Public Health (2008 – 2011)
  + Lead programmer for analysis of sexually transmitted infections screening and treatment.
  + Analysis for publication on effectiveness of human papillomavirus vaccine.
  + Developed code and research methodology to estimate costs per birth in Medi-Cal.
  + Coded proxies to impute pelvic inflammatory disease and reason-for-visit from claims data.
  + Managed secure data transfers from Kaiser Permanente and Quest Diagnostics.
* Prior positions:
  + Auditor Evaluator, California Bureau of State Audits (2007 – 2008)
  + Graduate Researcher, Institute for Public School Initiatives, University of Texas (2006 – 2007)
  + Policy Research Team, Accenture Consulting / Capital Metro Transportation Authority of Austin, Texas / LBJ School of Public Affairs (2005 – 2006)
  + Research Associate, Institute of Gerontology, University of Michigan (2003 – 2005)
  + Research Assistant, Radiation Oncology, University of Michigan Hospital (2002 – 2003)
  + Research Assistant, Kidney Epidemiology and Cost Center, University of Michigan (2001 – 2002)
  + Summer Intern, Federal Trade Commission (2000)

Education:

* Online coursework via Coursera:
  + Columbia – Economics of Money & Banking I and II (2015)
  + Johns Hopkins – Biostatistics II (2014)
  + Stanford – Social and Economic Networks: Models & Analysis (2014), Introduction to Natural Language Processing (2012), Introduction to Databases (2011), Introduction to Machine Learning (2011)
* University of Texas, Austin – Master of Public Policy (2007)
* University of Michigan – Bachelor of Arts, Economics with Honors (2001)

Open Source Projects at https://github.com/infiniteperplexity/:

* laserflakes – Processing sketch and InkScape instructions for producing laser-cut snowflakes (each one unique) using an algorithm inspired by randomized L-systems.
* visual-spinner-3d – JavaScript / HTML5 Canvas; visualization program and simulation engine for fire spinners and jugglers.
* lisp2js *–* Lisp-to-JavaScript transpiler.
* coral-bleaching – In-progress code to power a global warming-themed LED art installation, drawing on historical ocean surface temperature data.
* ineffable – Text mining the Erowid Experience Archives using the Scientific Python Stack.
* deep-dream-for-cats – Retraining deep convolutional networks to modify the output of Google’s DeepDream algorithm.
* hecatomb – Fortress-building rogue-like game written in JavaScript / Electron.
* todoapp – Personalized to-do app using Heroku, Node.js, React, React-Redux, and Twilio.
* dontstarvemods – mod packs, written in Lua, for the Klei Entertainment games Don’t Starve and Don’t Starve Together.
* light-and-motion – Arduino-based design projects integrating decorative plastics, addressable LEDs, and motion sensor data.
* ssvep-pacman – Forked project from 2015 NeuroGaming Hackathon; electroencephalograph / steady-state evoked visual potential brain-machine interface using OpenBCI board (code written in collaboration with others.)

References and curriculum vitae available upon request.

Notes:

-rewrite of all bullet points including grammar check for sanity.

-remove github section/ make a much smaller projects section

-put career experience either at top or much closer - don’t bury under lengthy core comp.

-turn core comp into technologies/tools you can use.

-take speaking/awards/etc. out of core comp and put into separate category.

-reformat font/margin/etc.