Shaun C. Rolph

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Summary

I'm a data scientist with over **15 years of experience** in finance, analytics, and economics. My career is grounded in service as a **Marine Corps veteran** and **Returned Peace Corps Volunteer**, with a foundation in systems thinking and a passion for turning complexity into clarity. I've led cross-functional teams of up to 20 people across combat zones, rural villages, and federal offices. My work has automated workflows across **$400M+** in federal funding, built public dashboards with **60,000+ lifetime views**, and delivered insights that shaped national grant strategy. Whether optimizing supply chains in rural villages or modernizing data pipelines in government agencies, I build solutions that drive measurable impact and serve real-world missions.

Professional & Military Experience

U.S. DEPARTMENT OF AGRICULTURE-AMS GRANTS DIVISION   **Washington, DC**
Senior Data Scientist   **September 2022 – Current**

- Engineered a grant allocation model using **Python** (Pandas, NumPy) to optimize funding distribution across $400M USD using agriculture and socio-economic data.
- Directed end-to-end development of data infrastructure and applications, automating workflows and improving data accessibility to include complete ETL pipelines.
- Built 20 **Tableau** public-facing and internal dashboards/data tools to increase stakeholder awareness of grant programs, averaging 5,000 monthly views.
- Applied **Python** libraries (NLTK, PyPDF2, scikit-learn, Seaborn, Matplotlib) for data mining, NLP, and machine learning, delivering key insight into grant programs.
- Supervised a team of 4 data scientists to execute projects involving automation, infrastructure, and analytics, utilizing **Hive**, **Power Platform**, **Databricks**, and **Azure** to streamline workflows.
- Conducted 12-month training sessions for 20+ staff on **Excel** and **Tableau** to improve data literacy in division.
- Completed a 10-month Data Science Training course, advancing expertise in **Python** for analytics, NLP, data mining, and supervised/unsupervised machine learning models.
- Developed and tested a RAG-based chatbot using **Python** open source models in **Databricks** environment.

J.E. AUSTIN ASSOCIATES INC.   **Washington, DC**
Research Associate   **September 2021 – June 2022**

- Designed and visualized 4 dashboards in **Tableau** for business development projects, analyzing agricultural supply and demand trends for various commodities.

WORLD BANK: AGRICULTURE & FOOD GLOBAL PRACTICE   **Remote**
M&E Consultant   **June 2021 – October 2021**

- Synthesized production and logistics data to create a supply chain database, producing visual reports and metrics to monitor agricultural business intelligence and project performance.

PEACE CORPS: BAMBOO INSTITUTE   **Timor-Leste**
Project Manager and Business Analyst   **August 2017 – March 2020**

- Managed and trained 21 employees using local language to audit, digitize, and analyze business models as well as increase capacity for information-reporting systems.
- Created and implemented procurement and fulfillment databases and a finance model using **Access DB**, **Tableau**, and **Excel Solver** to analyze marketing strategies, forecast demand and supply, and optimize production output.
- Secured and managed agriculture/business grant projects of over $400,000 USD developing manufacturing capacities, poverty alleviation in rural areas, and economic opportunities for bamboo farmers and carpenters.
- Conducted monitoring & evaluation for project and business investments to present findings to partners such as USAID, GIZ, UNDP, Prime Minister, and Minister of Agriculture and Fisheries.

RHODE ISLAND PUBLIC EXPENDITURE COUNCIL   **Providence, RI**
Economic Analyst Intern   **October 2016 – June 2017**

- Published state debt position and budget outlook review publication to increase voter knowledge for ballot initiative questions (Publication Link).
- Designed and implemented an automated data-to-dashboard process for a major report, reducing data management lead-time from two months to less than a week using advanced **Excel VBA** tools.

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OCC DEPARTMENT OF TREASURY   **Washington, DC**
Economic Research Pathway Intern   **June 2016 – January 2017**
- Researched and analyzed regional economic dependencies and the impact on banking and housing prices at the county level, working with over 10 million observations using **SAS**, **Python**, and **Tableau**.
- Computed data and assisted on working paper on national bank board of director composition of females and the correlation on firm performance before, during, and after the financial crisis.
- Built a **Tableau** dashboard providing insights on hotel market fundamentals, including supply/demand trends, loan originations, CRE data, travel expenditures, and competition with Airbnb.

AMERICAN TRUCKING ASSOCIATION   **Washington, DC**
Economic Research and Policy Intern   **June – September 2015**
- Researched and analyzed eight databases and indexes using **Tableau** and **SPSS** to support the Chief Economist in forecasting economic trends and outlooks in the trucking industry.
- Conducted Safety Expenditure Survey and statistical analysis to provide market benchmark and policy information.

AMICA INSURANCE   **Lincoln, RI**
Marketing Research Analyst   **October 2014 – June 2015**
- Leveraged **SAS**, **Access**, and **Tableau** to synthesize marketing data, producing 23+ weekly reports and ad hoc analyses that enabled upper management to evaluate marketing effectiveness and strategic outcomes.
- Visualized millions of pieces of data to more effectively communicate within weekly and Ad Hoc campaigns.

NATCO HOME PRODUCTS   **West Warwick, RI**
Credit Analyst   **March 2013 – October 2014**
- Analyzed and assessed all contract agreements, budgeting, chargeback claims, freight deduction types, and miscellaneous allowances to streamline credit processes and create a standard operating procedure.
- Streamlined data processes by leveraging **Excel VBA**, reducing data input time from weeks to a single afternoon.

UNITED STATES MARINE CORPS   **Camp Lejeune, NC/Afghanistan**
Finance Manager   **August 2009 – December 2012**
- Managed and audited over $200M in military payroll and disbursements, serving a base of 77,500+ personnel.
- Deployed to Afghanistan as Finance Project Manager, overseeing $4M+ in infrastructure and economic development payments in both USD and Afghan currency.
- Supervised and trained 15–50 Marines, balancing high-volume financial claims (100–150/day) and conducting over $112K in daily payments with zero discrepancies.
- Led internal audits with 97.7% accuracy, earning the Navy Marine Corps Achievement Medal.
- Created 25+ SOPs for pay systems, audits, and fiscal budgeting across programs.

Technical and Language Skills
Programming: Python, SQL, Stata, and SPSS
Data Tools: Jupyter Notebooks, Databricks, SAS, Excel (VBA, Solver), MS Power Platform, and Hue/Impala.
Enterprise Systems: Azure, AWS Grants Portal, Hive, SAP ERP, USMC CRM & ERP Systems
Data Visualization: Tableau, Power BI, ArcGIS, and Matplotlib
Language: English (native proficiency), Tetum (working proficiency)

Education

GEORGETOWN UNIVERSITY, Walsh School of Foreign Service   **GPA 3.58**   **Washington, DC**
Master of Global Human Development, Specialization: Quantitative Analysis and Evaluation   **May 2022**
Certificate: Social Innovation and Global Development
GHD Capstone: Worked with Silverleafe CSR in order to provide water access to villages in Uzbekistan.

BRYANT UNIVERSITY   **GPA 3.39**   **Dean's List: 6 semesters**   **Smithfield, RI**
Bachelor of Arts in International Political Economy   **May 2017**
- Minors: Global Supply Chain Management, Psychology
- Capstone Project: Collaborated with Hasbro logistics team to design a dashboard analyzing carrier lead times and compliance risks, resulting in a $12M cost-saving recommendation.