Andrew Schell

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SUMMARY

- Experienced data analyst with 7 years working across differentiated and technically challenging projects
- Skilled in automating marketing with analytics, provide data modeling, write SQL queries
- Skilled in hypothesis testing, data sourcing, cleaning, statistical analysis, dashboards, visualizations, and database testing
- Utilizes SQL server, MySQL, MongoDB, AWS, Python, R, MATlab, Google Analytics, Excel, Tableau, PowerBi, Mac/PC

PROFESSIONAL EXPERIENCE

Volunteer, Puget Sound Python Users Group
Seattle PuPPy, Galvanize   **March 2015 - October 2023, US, WA, Seattle**

A volunteer group of experienced data scientists, and engineers dedicated to exploring Python-based programming knowledge, conducting hackathons, code reviews, and skill growth, while embracing new and experienced members from all walks of life, helping all members to achieve personal and professional goals.

- Increased new member re-attendance from 2 in 5 to 3 in 5 or +31% by encouraging their individual contributions, engaging them in pair programming, teaching best practices, and working to flatten the learning curve as a data science mentor.

Data Analytics Lead
Recruiterless.ai (Student Project)   **July 2021 - December 2022, US, WA, Seattle**

My implementation of Natural Language Processing (NLP) and Bidirectional Encoder Representations from Transforms (BERT) to problem solve inefficiencies in the $700B global recruiting market. We ingested the applicants resume, scored their skills, experience and education against a matrix of the employers desired skills, experience and education. Saving an estimated 24 hours per month sending hiring manager the top ranked resumes within the range set by the recruiter, scheduling interviews and providing ongoing corporate upskilling to retain employees.

- Wrote backend script to automate 24.8 hour per month or 62% of the recruiting process with 91.8% resume data accuracy with BERT NLP.
- Optimized AWS pipeline, with the potential to save $146,000, and managed a team of five with weekly virtual standups.
- Collaborated with 23 HRTech CEOs with the potential to develop $116M in new revenue channels based on interview data.

Data Science Analyst
Your Data Talking   **October 2014 - July 2021, US, WA, Seattle**

Consulted with business owners in Finance, Medical and Legal practices to help big data tools for small to midsize companies who don't have the budget or need for a full-time machine learning engineer or data scientist.

- Created data ETL pipeline to automate SQL cleaning and wrote HR analytics that reduced employee turnover by 44% by aligning sales with user demographics.
- Rewrote backend analytics system to automate Google Analytics, saving 9 hours a week of data preparation.
- Partnered with business owners to reduce layoffs by 41% and improved retention by 203% with data-driven metrics.

Archive Assistant, Secretary of State
Washington State Historical Archives   **September 2019 - June 2020, US, WA, Seattle**

The Puget Sound Historical Archives preserves original documents from the 1850's for viewing and research in a secure temperature-controlled vault. White gloved staff handle delicate documents for copies, and for special research services by Archivist Midori Ozaki and her staff.

- Improved archivist physical records retrieval speed, saving 3 hours week with more efficient document research and retrieval as a student intern.
- I researched computer vision and NLP architecture to digitize historical documents for online access of documents.

Data Analyst
Lifespan Bioscience (LSBio)   **September 2017 - March 2018, US, WA, Seattle**

LSBio provides high-quality antibodies, proteins, biochemicals, ELISA and Assay kits to researchers worldwide. More recently LSBio has released their growing collections of Assay Kits and BioChemicals intended to complement their other product lines for the research community. LSBio partnered with Thompson Street Capital Partners (TSCP) 3Q2018 after closing (TSCP V) at $1.15 billion, oversubscribed and exceeded the original $850 million target.

- Wrote backend Python code reducing weekly update from 9 hours to 2 hours with unittest, pytest and CI/CD version control.
- Wrote clustering algorithm to clean and identify 91% of monoclonal and polyclonal antibodies, BioChemical and DNA markers via Supervised Learning based on NCBI and LSBio 23 year old SQL server database.
- Engineered ML pipeline for ELISA, Immunoassay, Protein, BioChemical, mono, and polyclonal antibody research.

Salesforce Admin/Developer
Presbyterian Senior Services (PSS)   **January 2015 - March 2017, US, NY, New York**

PSS is an innovative, multi-service nonprofit 501(c)(3) agency whose mission is to strengthen the capacity of older New Yorkers, their families, and communities to thrive. PSS has 70+ staff and 250+ volunteers to run ten busy community centers for older adults, family caregiver and kinship family support programs through PSS Circle of Care. They needed to migrate decades of patient and clinical records securely to Salesforce in the cloud.

- Built new Salesforce org and tested migration of 10,000+ HIPPA records with AWS cloud environment with Python scripting and Salesforce API saving $63,000.
- Streamlined patient data handling 148% by automating 3 hours of manual data handling with streamlined architecture in collaborating with IT, Nursing Staff and stakeholder collaboration while ensuring HIPAA patient data compliance.

Data Analyst
SPROXIL Pharmacovigilance   **September 2015 - June 2016, US, MA, Boston**

Counterfeit medicine is a dangerous, multi-billion-dollar problem that plagues patients, regulatory bodies, and the global health care industry. Fake anti-malarial and tuberculosis drugs alone account for over +790,000 reported annual deaths. Sproxil is an American technology company that builds trust across supply chains with solutions that emphasize direct engagement and facilitate loyalty programs for authentic pharmaceuticals.

- Increased website engagement customer time series buying patterns, leading to a 312% increase in product use.
- Wrote an automated SQL script to reduce data errors from marketing attribution by 41% for Google Analytics data.
- Rectified gender attribution errors in Google Analytics and SQL database, eliminating 71% of marketing overspend.

Financial Advisor
Country Financial   **October 2007 - May 2014, US, WA, Bellevue**

Country Financial is a privately held insurance and financial services conglomerate with customers in 19 states and $3.19 billion in revenue. The group of companies offers a range of insurance and financial products and services, including auto, home, life, farm, commercial insurance, retirement planning, investment management and trust services. My primary clients were privately held small to midsize northwest companies.

- Improved sales "call to close" ratio from 32 sales per 100 calls to 84 per 100 or +262.5% with Reinforcement learning and multivariate underwriting risk model.
- Reduced annual client churn by 38% by improving targeting marketing and 188% increase in Net Promoter Score from 3.9 to 8.1 on 482 B2B/B2C accounts.

EDUCATION

MicroMasters of Statistics and Data Science - MIT Edx Online   **June 2023 - March 2025**

- Design, build and analysis of data science, statistics, and machine learning to extract meaningful information by data-driven predictions.

Databases RDBMS and SQL - Stanford Lagunita Edx Online   **Dec 2022 - March 2024**

- SQL Indexes and Transactions, Constraints and Triggers, Views and Authorization for data cleaning, ETL and analytics

Bachelor of Applied Science Data Analytics - Bellevue College