

# Christopher V. Porter

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## EDUCATION

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### University of Utah, Eccles School of Business & Kahlert School of Computing

Salt Lake City, UT

*Master of Science, Business Analytics, GPA 3.88*

Dec 2023

*Graduate Certificate, Deep Learning & Artificial Intelligence*

- Data Science/Machine Learning (27 credits), Data Warehousing, Data Analysis, SQL/R/Python Programming, Visualization

### Brigham Young University

Provo, UT

*Bachelor of Science, Molecular Biology*

- Research in Virology and Structural Biophysics (Computational & *In vivo*)

## PROJECTS

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**Wasatch Grocery:** Utilized R to develop interpretable regression model, identifying predictor variables of customer behavior

**Home Credit:** Utilized R to develop XGBoost model to predict applicant likelihood to default on loan, using non-traditional data

**Maverik Sales Forecast (ongoing):** Utilizing Python to develop ML model to accurately predict daily and annual sales for new stores

## SKILLS

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**Databases/Big Data:** SQL Server, MySQL, Spark, Neo4j, Excel/Access

**Analytics/Visualization:** Power BI, Tableau, Google Data Studio

**Machine Learning:** Regression algorithms, Clustering, Decision Trees, RF, XGBoost, Naïve Bayes, SVM, Neural Nets, NLP, Time Series

**Cloud Computing:** AWS, Azure, Databricks, Git

**Web Tools/Technologies:** CSS, HTML, PHP

**Programming:** Python, R, SQL, Cypher QL, C#

**Languages:** English, Mandarin Chinese

**Certifications:** CP3 - Data Analytics (UVU), AWS Cloud Practitioner, Data Science and Big Data Analytics - DELL Technologies

## EXPERIENCE

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### Westlake Data Analytics

Saratoga Springs, UT

*Data Science Analyst*

*Jan 2021 – Apr 2023*

- Developed in R, then transitioned to Python (AWS Lambda) ETL pipeline, which increased reporting accuracy and timeliness
- Utilized R to develop and maintain ML model, which demonstrated initial 78% accuracy, and reduced client costs 68%
- Employed Git to maintain codebase version tracking, improved model design, obtained accuracy up to 90%
- Utilized SQL to model, build, and maintain company database/data warehouse, creating accessible data storage
- Utilizing Google Data Studio, created 5 new automated reports which kept clients updated on campaign progress
- Used Tableau to create multiple dashboards for internal and external use, providing timely data to decisionmakers
- Utilized R and Google Data Studio to perform ad-hoc data analysis, leading to increased client satisfaction
- Implemented transition from local computing resources to AWS, increasing uptime and availability to clients 4x

### ThoughtCloud (Crimson Project)

Reno, NV

*Machine Learning Project Lead*

*Sep 2022 – Dec 2022*

- Utilized Python (sci-kit) to evaluate pre-existing ML model for operationalization, delivered stakeholder feasibility report
- Employed Neo4j and Cypher QL, identified in-database analytical solution, reducing cloud storage and CPU requirements

### City of Saratoga Springs

Saratoga Springs, UT

*City Councilmember*

*Jan 2016 – Dec 2023*

- Oversaw budgets in excess of \$100M annually, maintaining positive cash flow even during extreme growth challenges
- Employed leadership skills to direct cross-functional teams of technical and non-technical employees to complete \$26M project to complete Phase 1 Patriot Park, and procure and plan \$10M City Cemetery
- Spearheaded initiative to hire in-house data analyst to increase internal data visibility and external transparency

### Brigham Young University

Provo, UT

*Research Assistant, Dept. of Microbiology*

*Sep 2007 – Apr 2009*

- Self-supervised research work, delivering relevant data to supervisors for eventual publication in peer-reviewed journal
- Performed statistical, and qualitative data analysis, leading to insights into *in vivo* operation of human papillomavirus