

# Brian Okuno

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## Data Professional | Pipelines - Analysis - Modeling

Technically driven data professional combining 14+ years of leadership experience with recent specialization in modern analytics and cloud technologies.

Currently completing a Master's in Applied Data Science at USC (Dec 2025), deepening hands-on expertise in Python, SQL, Spark, and AWS to drive modeling, automation, and scalable pipelines.

## EDUCATION

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### Master of Science in Applied Data Science - Expected 12/2025

University of Southern California (USC) • GPA: 3.50

Los Angeles, CA

### Master of Business Administration in Finance and Strategic Management

Claremont Graduate University

Claremont, CA

### Bachelor of Science in Biological Science, Bachelor of Arts in Social Science

University of California, Irvine

Irvine, CA

## WORK EXPERIENCE

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### Professional Sabbatical

05/2024 - Present

#### Data Professional - Independent Study & Technical Training

- Took planned time off to support my daughter's successful transition into kindergarten while preparing for re-entry into a more technical data role.
- Built hands-on projects focused on recommendation systems, time series forecasting, and scalable data engineering pipelines.

### Ernst & Young

01/2010 - 04/2024

#### Senior Manager, Tax Technology and Transformation Services

- Oversaw SaaS and application development projects integrating tax compliance solutions with large-scale datasets.
- Partnered with clients to scope and deliver custom tools automating tax data analysis and reporting.
- Led development of custom Python and SQL-based tools to automate tax data analysis and reporting, integrating structured datasets with cloud-hosted platforms.
- Designed and led implementation of scalable ETL pipelines using SQL and Azure, automating ingestion and transformation of complex tax data across global client systems.

## Manager, Tax Technology Transformation Services

- Led a team of 10 consultants on data-intensive tax engagements requiring database and scripting skills.
- Integrated structured client data into reporting platforms for advanced analytics.
- Championed process improvement through technology, resulting in faster cycle times for data reviews.

## Senior Consultant, Business Tax Advisory

- Conducted interviews with SMEs and used quantitative analysis to support tax credit and deduction positions.
- Managed full project lifecycle including budgeting, execution, and delivery.
- Built analytical tools in Excel using pivot tables and charts to support findings.

## RELEVANT COURSEWORK – USC MASTER’S PROGRAM

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### Machine Learning & Recommendation Systems

- Built classification models using logistic regression, decision trees, SVMs, and ensemble methods.
- Applied cross-validation and bootstrapping for evaluation.
- Designed recommendation systems using collaborative filtering, frequent itemset mining, and PySpark.

### Big Data & Data Engineering

- Developed distributed data pipelines using Hadoop and Spark.
- Performed NoSQL operations with MongoDB, HBase, Firebase, and DynamoDB.
- Designed and optimized data schemas, integrated data lakes, and explored real-world big data use cases.

### Foundations & Python

- Gained fluency in Python for data science: web scraping, object-oriented design, and visualization.
- Explored time series, geospatial, and text workflows; studied metadata, ethics, and data provenance.

## SKILLS

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- **Languages:** Python, SQL
- **Data Systems:** AWS EC2, DynamoDB, Firebase, HDFS, MongoDB, MySQL
- **Tools/Frameworks:** Alteryx, Hadoop, Jupyter Notebooks, Matplotlib, NumPy, Pandas, Power BI, Scikit-learn, Seaborn, Spark, Tableau, XGBoost
- **Concepts:** A/B Testing, Big Data Processing, Cloud Storage, Data Mining, Data Pipelines, Distributed Systems, Feature Engineering, Machine Learning – Regression, Classification, Clustering, Metadata & Provenance, Model Evaluation, NoSQL, Recommendation Engines, Time Series Analysis