Sidharth Bijo

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EDUCATION

University of Illinois at Chicago | August 2021 - May 2025
- Major: B.S. in Data Science | Concentration: Data Processing, Science, and Engineering

WORK EXPERIENCE

Data Assistant | *S&S Consulting* **|** August 2025 - January 2026
- Organized and analyzed business data using Pivot Tables and advanced Excel functions to identify sales trends and support operational decisions.
- Automated data cleaning and preparation by building Power Query workflows, significantly reducing manual entry and improving reporting speed.
- Built interactive dashboards and visual summaries to communicate key performance metrics (KPIs) clearly to management and stakeholders.
- Streamlined reporting processes, using automated queries to reduce errors and ensure data consistency across multiple projects.

Systems Engineer Intern | *Levi, Ray & Shoup, Inc.* **|** May 2024 - August 2024
- Designed and automated SQL and Python workflows to streamline data integration and analytics, reducing manual processing by 30%.
- Built dashboards and visualizations in Power BI to clearly communicate system performance to technical and non-technical stakeholders.
- Partnered with sales and product teams to analyze key metrics, uncover process improvement opportunities, and deliver business-focused insights.
- Co-developed a Python simulation framework for benchmarking performance, producing structured outputs.
- Authored concise technical documentation and presentations, enhancing stakeholder understanding and data-driven decision-making.

PROJECTS

Stock Market Data Pipeline | Python, Apache Airflow, AWS S3, PostgreSQL, Pandas
- Built a fully automated ETL pipeline to extract, transform, and load stock market data into an analytics-ready warehouse.
- Orchestrated daily pipeline execution with Apache Airflow, implementing task sequencing and failure handling.
- Processed and enriched time-series data using Pandas.
- Implemented a data lake pattern in AWS S3 to store raw and processed datasets.
- Integrated PostgreSQL as a data warehouse for downstream SQL analytics.

Personal Expense Tracker Web Application | Python, Flask, SQLAlchemy, SQLite, Bootstrap
- Designed and developed a full-stack financial tracking application, managing expenses, budgets, and incomes.
- Implemented relational models and CRUD operations in SQLite to store and query structured financial data.
- Developed interactive dashboards for trend analysis and financial forecasting.
- Delivered a polished, responsive UI with Bootstrap and reusable templates for improved usability.

NBA Player Probability Calculator | Python, NumPy, SciPy, Pandas
- Calculates the likelihood of an NBA player exceeding performance lines using historical stats.
- Incorporates statistical analysis and probability distribution functions to provide insights, with optional filtering by specific opponents.

CERTIFICATIONS

IBM Data Analyst Professional Certificate - *Obtained September 2025*
Google Data Analytics Professional Certificate - *Obtained February 2026*

SKILLS

Programming & Data: Python (Pandas, NumPy, SciPy, scikit-learn), SQL, R, Java, C++
Data Engineering & Databases: PostgreSQL, AWS S3, Apache Airflow, SQLAlchemy, ETL Pipelines
Visualization & Reporting: Tableau, Power BI, IBM Cognos, Looker Studio, ggplot2, Matplotlib, Excel