

Samuel Edwards

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EDUCATION

University of California, Berkeley
Bachelor of Arts in Data Science

08/2020 - 05/2024

Programming Languages: Python, SQL, R, Java, HTML/CSS, JavaScript (React.js), Stata, SAS, Lua, Bash

Relevant Coursework: Data Mining and Analytics, Causal Inferences and Decisions, Principles and Techniques of Data Science, Probability and Mathematical Statistics in Data Science, Advanced Business Analytics, Data Engineering

EXPERIENCE

Computer Scientist Specialist

U.S. Census Bureau

08/2025 – Present

Suitland, MD

- Migrated tabulation systems from Linux servers to the AWS cloud environment, enhancing scalability, performance, and alignment with the Census Bureau's enterprise data strategy.
- Designed, enhanced, and maintained advanced tabulation software systems using SAS, Python, and Perl in a Linux/Red Hat and AWS environment to deliver custom ACS data products.
- Performed data verification and quality assurance through independent calculations, multi-program testing, and resolution of specification and data inconsistencies, ensuring compliance with Census Bureau data disclosure policies
- Utilized Power Automate to notify the cybersecurity team of access discrepancies and generate weekly reports, enhancing visibility into access analytics and supporting timely resolution of issues.

Information Technology Intern

Hilmar Cheese & Ingredients

07/2024 – 08/2024

Modesto, CA

- Led cybersecurity identity management solution, identifying over 100 access discrepancies across SAP ECC, Microsoft Active Directory, and SAP SuccessFactors, ensuring alignment with user access policies and compliance during department audits.
- Designed and developed data pipelines to aggregate system data from Azure On-Premises and Azure cloud and implemented an interactive dashboard in Microsoft PowerBI, improving reporting efficiency and accessibility for stakeholders.
- Utilized Power Automate to notify the cybersecurity team of access discrepancies and generate weekly reports, enhancing visibility into access analytics and supporting timely resolution of issues.

Simulations Data Scientist

Space Technologies and Rocket

09/2023 – 12/2023

Berkeley, CA

- Initiated the collection and analysis of data from rocket navigational systems, employing Python for processing and visualization.
- Identified and capitalized on key data trends, leading to strategic adjustments of rocketry systems, and achieving a 30% increase in flight altitude.
- Pioneered the implementation of advanced data validation software for GPS and altimeter data, resulting in a 10% improvement in the efficiency of deployable air brakes and increased accuracy of altitude calculations.

PROJECTS

Berkeley Course Insights Website (*Node.js, PostgreSQL, Postman, HTML*)

- Completed a full stack developed website enabling college students to share first-hand experiences and rate courses, fostering a collaborative academic community.
- Implemented React.js and Tailwind CSS for a responsive, interactive user interface and improved user experience.
- Utilized PostgreSQL for efficient database management and leveraged Postman for REST API testing and validation.

Stock Valuation Prediction Model (*Python*)

- Utilized Google Finance API to access historical market data for all publicly traded companies.
- Engineered a LSTM predictive machine learning model that achieved a 67% accuracy rate in forecasting stock prices.
- Developed a web scraper to collect relevant news data and enhanced forecast accuracy by 10% through the integration of news data for the detection of significant mergers and acquisitions.

Digital Asset Analysis (*R, Excel, MS PowerPoint*)

- Discovered important user characteristics to predict product conversion rate with 70% accuracy by using R to transform data and perform Logistic Regression.
- Visualized analysis using Excel to effectively illustrate key trends, patterns, and insights derived from the data, enabling a comprehensive understanding of user behavior and factors influencing the product conversion rate.
- Created slide deck in MS PowerPoint to communicate results and provide actionable recommendations to increase conversion rates and revenue.

SKILLS & INTERESTS

Technical Skills: Data Mining and Analysis, Data Engineering/Data Base Management, Statistical Modeling, Machine Learning, Data Visualization, Program Development, Full Stack Development, REST API, MacOS, Windows, Linux, AWS

Soft Skills: Communication, Problem-solving, Critical Thinking, Project Management, Leadership, Collaboration, Decision Making