# RIHAD VARIAWA | Data Scientist

## SKILLS

### DATA ANALYTICS
- Applied statistics & probability
- Machine learning algorithms & processes
- Feature engineering & refinement
- Investigation of public data sources
- Systems for large-scale, automated data collection & analysis
- Application usage analysis
- Predictive analytics
- Tools for structured data storage & retrieval
- Data storage and analysis tools: e.g. SQL, Hadoop, Map Reduce & Spark
- Meaningful experience in analysing English language text based data sets
- Web Scraping
- Confortable 'working virtually' with teammates & customers around the world
- Demonstrated success as a problem solver, result-oriented and self-starter

### PROGRAMMING LANGUAGES
- Python with Numpy, Pandas, Sci-Kit Learn & Matplotlib
- R Programming
- Solidity
- C++
- JavaScript (D3.js), HTML & CSS

### SOFTWARE
- Jupyter Notebook
- GitHub and GitKraken
- Caseware Audit
- Power BI
- MS Office Suite

### STATUTORY REGULATIONS
- International Financial Reporting Standards (IFRS)
- International Auditing Standards (IAS)
- King IV Report on Corporate Governance
- Companies Act 71 of 2008

### FINANCE
- Corporate Finance
- Business Strategies
- Operational Efficiency
- Scenario Analysis
- Forecasting
- Risk Management

## OPEN-SOURCE PROJECTS
**Cryptocurrency Pricing Analysis Using Python**
"*Crypto Data Analysis" (as of January 2014)*
**Using Python To Analyse 60 Million US Police Stops**
**"***Top Python Article Of The Month – Mybridge, Nov 2017"*
**Loan Application Prediction Challenge**
**"***To Establish Whether A Loan Would Be Approved Or Not"*
**Time Series Analysis Using Python**
**"***Helping Investors Make An Investment In A New Form Of Transportation"*

## ACADEMIC QUALIFICATIONS
- Postgraduate Diploma Accounting Science (CTA) | 2014
- BCompt (Hons) Accounting Science | 2011
- BCompt Accounting Science | 2008

## LINKS
www.linkedin.com/in/rihad-variawa-7422017b
https://github.com/2series
https://2series.github.io

## PROFESSIONAL EXPERIENCE

### DATA SCIENTIST, eSource
Jan 2017 –
- Author of a renewable energy white paper
- Performed analysis related to trends in emerging technologies, forecasted performance & cash flow needs for existing and future Investments for renewable energy
- Developed models to analyse fund investment performance, refinance/swap/currency analysis and buyout/venture/secondary analysis

### FINANCIAL MANAGER, Real Estate Portfolio
Feb 2017 – May 2018
- Through M&A created an asset class portfolio of housing and apartment developments
- Delivered timely & accurate quarterly financial and management accounts
- Evaluated risk factors that could adversely affect the assets & implemented procedures to mitigate exposure to risks and disclose risk information to relevant internal & external stakeholders
- Formulated and maintained financial models for decision-making purposes
- Managed & optimise processes for data intake and validation as well as modeling, visualisation and communicated deliverables
- Built hypothetical, multi-year financial models
- Tracked & determined financial status by analyzing actual results with forecasts and budgets
- Accelerated corporate compliance, operational risks & control processes by monitoring financial obligations with banks and developing credit facilities
- Devised relevant internal controls to ensure the integrity of operations, financial and accounting practices
- Managed banking relationships and monitored the portfolio's cash flow liquidity
- Conducted impairment tests on CGUs and potential CGUs in accordance with IFRS requirements

### ASSOCIATE ACCOUNTANT, Audit Firm
Feb 2014 – Jan 2017
- Financial service audits of: *Asset Fund Managers, Trusts, Property Management Co, SPVs & telecommunication* incorporating financial analysis, consolidations & reporting
- Externally audited *(private & public) clients* in environments providing exposure to risk and compliance management & 2 due diligence reports contributed during this period
- Examined full lifecycle activities including requirement analysis, internal control design & reporting capabilities
- Monitored and reported by understanding key processes, internal controls, risk identification, risk analysis, responding to risks identified, sound governance & assessed adequate information, communication and monitoring of risk management activities by those charged with governance
- Explored existing data and produce recommendations for improvement policies and processes where necessary