# Duncan Andrew

## Business Owner | Data Scientist | Python Developer

Passionate, driven, and meticulous data specialist with 8+ years of experience and a habit of coming up with creative solutions to complex problems. Currently running a fully-automated FinTech company, managing $150k+ in client transactions daily.

🌐 Remote only, due to residency status requirements.

🅰️🇿 English (native)

🏴 British & South African

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📍 Lisbon, Portugal

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in linkedin.com/in/duncs/

## AUTHORISED TO WORK IN

United Kingdom

European Union

South Africa

## SOFT SKILLS

Problem solver

Curious     Fast learner

Adaptive

# WORK EXPERIENCE

### Director/Owner
Lumina X

*July 2019 - Present*                                   *Global*

*FinTech company focused on data-centric, fully automated financial services for multiple clients.*

Responsibilities & Achievements

- Independently created, developed, and launched every aspect of the company. Initially started as a side business to learn cloud-based services and infrastructure with just a handful of clients. It has since taken off and expanded to a very-active client base of 45+, with $400k of profit realised to date.
- Designed, developed, and maintained full financial trading software suite in Python.
- Produced fully automated processes with horizontal scaling and vertically integrated with multiple service providers (both private and government), enabling $150k of daily transactions.
- Migrated full architecture from GCP to AWS, including DBs, servers & serverless tech.
- Achieved extreme cost optimisation - overheads are less than 0.5% of revenue.
- Conceived and engineered the entire end-to-end client journey and lifecycle to ensure enhanced client satisfaction and engagement.
- Ongoing strategic planning and management to optimize for frequent changes occurring within the field.Developed a full REST API using Python and Flask.
- Developed company website using Python, JavaScript, PHP, Flask, and WordPress.
- Produced data models using Pandas and TensorFlow to identify opportunities, perform custom ETL processes, and produce a wide selection of reporting capabilities.
- Implemented containerised applications using Kubernetes and Docker.

### Financial Representative
RS Anderson Treasury

*July 2021 - Present*                              *South Africa*

*A registered Financial Services Provider, a treasury outsourcer which offers foreign exchange dealing, private wealth, and cryptocurrency solutions for its clients.*

Responsibilities & Achievements

- Integrated financial services and advice to Lumina X clients, using Python and custom-built APIs.
- FX trades booked to the value of $150k per day.
- Initiated and now manage end-to-end process automation and channel integration using Python, JavaScript and Selenium.

### Lead Data Scientist
Mr D Food

*April 2018 - September 2019*          *Cape Town, South Africa*

*South Africa's largest food delivery service, a part of the Takealot.group. Internally head-hunted to lead the BI and Data teams.*

Responsibilities & Achievements

- Developed, launched, and managed all data flows, ETL processes, BI tools, data models, and reporting within the company.
- Established the use of Python to the Operations team, allowing for new reporting, automation, and ETL capabilities.
- Custom-built a real-time ETL and replication tool using Python and Pandas which improved reporting capabilities and optimised every BI and data process flow across the company. This reduced reporting time from ±40 mins to ±5 secs, saving the company $120k annually due to in-housing.
- Custom-built a data-warehouse to store this real-time data, and improve reporting capabilities.
- Developed solutions in collaboration with Marketing, Finance, Operations, and Development/Engineering departments to drive efficient and informed business decision-making.
- Conceptualised, project-managed, and successfully implemented extensive cost-reducing solutions as well as enhanced and optimised the flexibility of models, BI tools, and reporting for the entire organisation.
- Built reporting capabilities in Elasticsearch, MySQL, Python, Google BigQuery, and JavaScript.
- Managed BI infrastructure and development and maintenance across QlikView, QlikSense, Tableau, and PowerBI.

## Data Analyst (Contract, Freelance)
### Dynamo Partners
*November 2018 - February 2019*                    *Berlin & New York*
*A marketing and management consulting firm with offices in Germany and Poland.*

Responsibilities & Achievements

- Performed comprehensive mobile marketing analysis on funnel conversion and drop-off rates of users within a mobile app for a New York-based company.
- Analysis results triggered significant changes within the user-flow, user-journey, user experience, and overall app design based on our suggestions. An additional follow-up analysis was requested post changes.

## Data Analyst
### Takealot
*September 2016 - March 2018*                    *Cape Town, South Africa*
*South Africa's largest online retailer (majority owned by Naspers).*

Responsibilities & Achievements

- Developed, launched, and managed six QlikView apps that were used by 145+ users, including the C-suite to inform and drive business decisions.
- Spearheaded the integration of Python into the BI and Data & Analytics team.
- Generated multiple data models that produced analyses, predictions, and exhaustive cost breakdowns using Python and Pandas.
- Worked with multiple divisions: Retail & Marketplace, Finance, Private Label, and the whole Mr D Food business.
- Designed and implemented the company-wide Business Intelligence infrastructure, and deployed QlikView and QlikSense.
- Produced multiple automated reports using MySQL, PostgreSQL, and Python Pandas.

## Analyst
### KPMG
*January 2015 - August 2016*                    *Cape Town, South Africa*
*One of the Big Four international audit firms.*

Responsibilities & Achievements

- Formulated and designed Data & Analytics procedures (Data Visualisation and Analysis, Data Migration reviews, and generating analytical models) for clients.
- Managed and performed IT Audits (General IT Controls, Data Audits, and ISAE 3402 reviews) for multiple clients across the financial industry.
- Promoted to Head of Data and Analytics within the Cape Town offices.
- In charge of development and presentation of QlikView models for clients.

## INTERESTS

Hiking   Cooking

Trail Running   Travel

Squash   Woodworking

## EDUCATION

### BCom Honours
Rhodes University

*2014*                                                              *First Class/Cum Laude*
*Bachelor of Commerce with Honours in Information Systems*

Dissertation: Blended Learning in Tertiary Education

### BCom
Rhodes University

*2011 - 2013*                                        *First Class/Cum Laude in Information Systems*
*Bachelor of Commerce*

- Major: Information Systems
- Major: Economics

### Matric
St John's College, Johannesburg

*2006 - 2010*                                                              *4 Distinctions*
*IEB Matriculation*

## CERTIFICATIONS

AWS Certified Cloud Practitioner (2022)

RE5 Financial Services Representative Exam (2022)

Class of Business - Structured Deposits (2022)

Class of Business - Short and Long Term Deposits (2022)

Class of Business - Investments (2022)

QlikSense Visualisation (2018)

Data Analysis in Python with Pandas, Udemy (2018)

Certified Security Sentinel, Mile2 (2016)

COBIT 5 Foundations (2015)