EMILE ALEXANDER GILL

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SUMMARY

Lead Analytics Engineer with strong Python and SQL skills and experience working across the data life-cycle: web scraping, data manipulation and cleaning, building ETL/ELT pipelines, data visualisation, as well as experience leading a team. Avid self-learner, passionate about leveraging data to solve business problems, eager to apply these skills to data science/engineering opportunities.

EDUCATION

Imperial College London - BSc Physics   *2015-2018*

Thesis: "Inertial Confinement Fusion: A Critical Analysis of the Likelihood of Achieving Ignition at the National Ignition Facility"

King Edward VI Five Ways Grammar School   *2008-2015*
A-levels - A*A*A*A:
Physics A* (98% avg); Math A* (99% avg); Further Math A (88% avg); Chemistry A* (95% avg)

AS levels: Biology A (99% avg)
GCSEs: 8 A* grades and 6 A grades

EXPERIENCE

AccorHotels – Northern Europe Head Office, London
Business Insights and Analytics Team

Lead Analytics Engineer   Apr 2021 - Present

· In a continuation of my previous role as Analytics Manager I founded a new Analytics Engineering team with the purpose of designing and maintaining data modeling, and managing custom ELT pipelines to meet the analytics and reporting needs of Accor Northern Europe.

· Implementing dbt and GitHub Actions CI/CD to model and test the data in our Snowflake data warehouse. Looking to migrate custom Python ETL jobs to Apache Airflow.

Analytics Manager   Aug 2020 - Present

· Analytics lead in Northern Europe, spanning 29 countries. Reporting to the Director of Business Insights and Analytics, managing a team of two analysts.

· Delivering on a roadmap to transform the region's data engineering practices, setting up a new 'Analytics Engineering' team to centralise our data in a Snowflake data warehouse, manage the ingestion of various data sources and in-database transformations to feed reporting in PowerBI.

· Seconded for 3 months to work with the Global Data Engineering team in Paris, liasing with third party data providers to provide data-feeds for key data sources. Using AWS managed SFTP service, S3 and Lambda to set up ingestion pipelines to Snowflake.

Senior Data Analyst   Jan 2020 - Aug 2020

· Developing and maintaining a code-base of on-premise scheduled Python jobs to automate processes, scrape data from the web and serve PowerBI reporting.

· Exploring new technologies and presenting the case to Directors and Heads of Department in Northern Europe and the Global Head Office, to modernise our tech stack and scale up as demand for reporting and analytics grows.

· Mentoring of more junior members of the team, with a structured learning approach to develop programming and data science skills in the team, cultivating a knowledge-sharing culture.

Data Analyst
Nov 2018 - Jan 2020

· Developed Python scripts to extract data from third-party sources on a daily schedule, implementing web-scraping libraries such as requests, selenium and Beautiful Soup. Extensive use of the pandas library for transformation, cleaning and validation in data pipelines.

· Modernised practices of BI & Analytics Team; migrating legacy processes, relying heavily on manual extraction and processing of data and Excel-VBA reporting, to scheduled Python scripts, serving Power BI dashboards. Increased efficiency of our team by ∼400%, automating what previously required a team of 4 working 7-11am, allowing us to expand the portfolio we report on from ∼100 to >500 hotels.

· Use of VBA to load and visualise data in interactive Excel reports. Including a weekly revenue report, rolled out across Northern Europe for weekly strategy meetings between Revenue Managers and General Managers, detailing revenue performance by date, market segment, booking channel etc.

· Liaising with key stakeholders of projects, i.e. Directors and Revenue Managers, to discuss project requirements and consult on strategy for the Revenue Management and BI teams to roll out new projects.

Education Partnerships Africa
Sept 2018 - Sept 2019

Information Management Officer (volunteer role)

· Sat on the Business Operations committee, liaising with the board of directors and members of other committees on issues regarding IT systems and database management.

· Managing charity databases uploading data to Salesforce CRM for monitoring and evaluation, ensuring data usage practices compliant with GDPR data protection principles.

INTERESTS AND ACHIEVEMENTS

Writer at TowardsDataScience

· Regular contributor to the Medium publication TowardsDataScience, showcasing my personal projects and interests in my blog posts.

Imperial College 7th Team Football Captain 2017/18

· Presented speech at AGM, running against fellow members, to be elected into the role.
· Selected and managed squad of more than 30 members, running weekly training sessions; liaising with other committee members in bi-weekly meetings.
· Communicated with referees, opposition captains and university sports coordinators to plan and execute Wednesday and Saturday fixtures throughout the year.

Duke of Edinburgh Awards

· Completed Bronze, Silver and Gold DofE Awards.

National Science Competitions

· Silver Award in the British Physics Olympiad (*2015*)
· Silver Awards in the AS Physics and AS Chemistry Challenges (*2014*)

Secondary School Honours

· Awarded a leaving exhibition by King Edward VI Five Ways School in recognition of a successful career at the school.

TECHNICAL SKILLS

Programming Languages	Python (pandas, numpy, selenium, requests, matplotlib, bokeh; OOP); VBA; SQL; HTML; CSS
Software & Tools	Snowflake, dbt, Airflow, AWS (S3, Lambda, EC2, RDS), Git/GitHub, Power BI, Dataiku DSS, PostgreSQL/pgAdmin4, VS Code, Jupyter Notebook