

Michael Gomes Vieira  
78a College Place, London, NW1 0DJ  
Telephone: 07403386460  
[mgomesvieira13@gmail.com](mailto:mgomesvieira13@gmail.com)

## EDUCATION

---

### London School of Economics

MSc (Distinction) Political Science and Political Economy 09/2016 – 09/2017

University of Durham BSc (2.1 Hons.) Natural Sciences – Physics & Philosophy 10/2010 – 06/2013

### Capital City Academy

A Levels: Physics A\* – Maths A\* – Biology A – (AS Level) Chemistry A 09/2008 – 07/2010

- Only student in year group to achieve A\*s at A-Level

GCSEs: 10 'A\*-C' GCSEs including Maths and English 09/2003 – 07/2008

## EMPLOYMENT HISTORY

---

### Just Eat Takeaway, London

Golang Backend Engineer 1/2023 – present

- Maintaining and improving several microservices for a web-app that automates inserting customer orders from the Just Eat to a restaurant's Point-of-Sale system.
- Migrated the teams' Circle-CI pipelines to GitHub Actions.
- Migrated the teams' repositories from standard GitHub to GitHub enterprise.
- Significantly improved the run time for suite of backend tests.

Data Scientist 12/2021 – 12/2022

- Reduced costs on Sponsored Restaurant Rankings for app users while maintaining performance
- Created a recommendations algorithm for sides & extras
- Created an algorithm to predict the likelihood of customers churning

### Sainsbury's, London

Data Scientist 11/2019 – present

Associate Data Scientist 05/2018 – 11/2019

- I developed an algorithm optimising the selection of substitute products for online orders. The algorithm used the linear programming functionality in the OR-tools python package to optimise the suggested substitutes for price-difference partial refunds and rejection rate. It reduced the rejection rate of substitutes by 18%, reducing lost revenue by £2million.
- Developed an algorithm that prioritises the replenishment of delivery units into stores by targeting delivery units with stock for online orders that were low in stock. The algorithm led to an extra £12million worth of items a year being successfully picked for online orders.
- I also developed an algorithm that sorts shopper feedback comments into topics and uses a logistic regression model to classify the feedback into positive and negative comments.
- Worked on an algorithm that used clustering to optimise the layout of products at Sainsbury's Depots, so that delivery units were more store friendly. The reduction in replenishment time of the delivery units was estimated to save the business £400k annually.
- Line managed two interns in the Sainsbury's Data Science team.

**AdExperiments, London**  
**Data Science Intern**

01/2018 – 04/2018

- Manage creative studies, using A/B tests to measure the impactfulness of digital adverts on their intended audience
- Leveraging R, SQL and Microsoft Excel to pry out statistically proven consumer insights
- Developing software and updating back-end processes to support data collection and visualisation using Go Language

**Whitgift School, London**  
**Learning Support Assistant**

09/2014 – 07/2016

**ZenithOptiMedia, London**  
**Content Marketing Intern**

12/2013 – 01/2014

## **POSITIONS OF RESPONSIBILITY**

---

**London Cycling Campaign, London**  
**Campaign Organiser**

05/2014

## **SKILLS & LANGUAGES**

---

- Python, Pandas, Scikit-Learn, OR-Tools, Seaborn, Matplotlib, R, Bash, SQL, Go Language, JavaScript, CSS, HTML, Eleventy, Grafana, Prometheus
- Fluent level of Portuguese

## **INTERESTS & PROJECTS**

---

- Mainly web development, I'm a small web obsessive you can find my projects and blog at <https://michaelgv.uk>
- I recently built a small web app to accept RSVPs to my upcoming wedding. The code for it can be found [here](#).
- I once performed at The Comedy Store in London. Watch it [here](#).
- I captain a 5-a-side football team in a weekly 5-a-side football league.
- I'm a big Fantasy Premier League fan. My best ever finish was [2382 out of 7 million FPL players in the 2019/20 season](#).