

# Mohamed Tayeh

[mohamedtayeh.com](http://mohamedtayeh.com) • Toronto, ON

## Education

### University of Toronto

August, 2018 – August, 2022

Honours B.S., Computer Science Major and Statistics Specialist (Machine Learning & Data Mining)

- cGPA: 3.80 (out of 4)
- Awards: [Lester B. Pearson Scholar](#) (full scholarship), Dean's List, Graduating with High Distinction

## Skills

- **Languages:** Python, Typescript, JavaScript (ES6), CSS3, HTML5, SCSS, SQL, Java, C, Bash
- **Frameworks:** Django, NodeJS, Express, React, Angular, Redux, Jest
- **Protocols:** REST, GraphQL, gRPC, HTTP/1.1, HTTP/2, WebSocket, TCP/IP protocols
- **Databases:** PostgreSQL, MongoDB, Neo4j, PGAdmin
- **Cloud:** AWS, Docker, GitHub Actions, CI/CD, DigitalOcean, Nginx

## Work Experience

### GrafGas - [grafgas.com](http://grafgas.com)

September 2021 – Present

Full Stack Developer & DevOps (part-time)

Remote

- Developed and designed gas station **ETL pipeline** that parses and digests live data running for **14 months**
- Led the design **schema design** of **PostgreSQL database** and **20+ Django REST APIs**
- Deployed website on **AWS** using **EC2, CloudFront, S3, VPC, Route53, RDS**, etc.
- Building a **TCP/IP server** to handle a closed **network protocol** for OBD-II devices

### Temerity Analytics Inc. - [temerityanalytics.com](http://temerityanalytics.com)

May 2020 – August 2021

Full Stack Developer

Toronto, ON

- Temerity Analytics is a marketing analytics startup, I worked with **Angular** and **Django** in an **agile** team
- Refactored, documented and tested over **100 Python Django REST APIs** to boost **speed** by **70%**
- Developed and designed **2 pages** (frontend components and API's) deemed **essential** by **clients** and **CEO**
  - Designed the components based on marketing statistical knowledge seen as **unique** and **insightful**
  - Developed reusable components for data filtering and charts that depend on Google Map navigation
- Created a **reusable Google Maps wrapper** used in **8 pages** throughout the platform
- Proposed a **new QA procedure**, leading to **weekly uncovering of bugs** and **more stable code base**
- Proposed and developed **documentation project** to improve service documentation for clients, and coding practices for the development team.

## Projects

### Twitch Chat Bots & Overlays - [ttv/mohcitrus](http://ttv/mohcitrus)

September 2021 – Present

- Twitch translator chat bot in **NodeJS** and **microservices docker architecture** with **gRPC** and **websockets**
- Deployed chat bot on **DigitalOcean** with **GitHub Workflow**, and is currently being used by **130+ streamers**
- Designed with **Figma** and developed twitch overlays with **vanilla JS** used by **30+ streamers** for chat interaction

### Datalytic - [datalytic.ml](http://datalytic.ml) (user: data & password: data)

May 2022 – August 2022

- A dashboard platform targeting business owners on to aggregate and analyze their review app and social media feedback using Natural Language Processing
- Led content and **UI/UX design** of the dashboard
  - Designed charts based on metrics appealing to content creators and small business owners
  - Led **React code architecture** to easily and efficiently use reusable components
- Developed features and reusable components in **React** and **Express**:
  - Created a reusable ML API wrapper to **integrate 3rd party Machine Learning NLP API**
  - Built user authentication using session based authentication and reusable chart components
  - Integrated **3rd Party YouTube API** to create an **ETL data pipeline**
- Deployed website using **GitHub Workflow**, **Docker** and **DigitalOcean virtual machines**

### COVID-19 Vaccination Tracker - [covid.mohamedtayeh.com](http://covid.mohamedtayeh.com)

March 2022 – May 2022

- This project aimed to simplify COVID-19 vaccination worldwide statistics visualization
- Used **React** and **GraphQL** to create **MongoDB database schemas**, **ETL data pipelines**, website **internationalization** and **reusable components for Google Maps 3rd Party API**
- Set up **sentry** and discord integration for **monitoring** on any production & ETL pipeline errors

Full list of projects with demo: [mohamedtayeh.com/portfolio](http://mohamedtayeh.com/portfolio) under Projects