

# MATEUS M. FURQUIM MENDONÇA

## Machine Learning and Software Engineer

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 Brazil

## PROFESSIONAL SUMMARY


Highly skilled software engineer with over 9 years of experience and a diverse background. Committed to team growth and innovation through effective mentoring and collaboration. Strong problem-solving skills with a passion for delivering high-quality software solutions.

## WORK EXPERIENCE

### Back-end Developer

DevGrid

 Jan 2021 – Present

 United Kingdom (Remote)

Managed several microservices that employ machine learning algorithms to estimate house appliances' energy consumption.

- > Achieved up to 59% improvement in **Python** write operations on **Cassandra** through the safe utilization of unlogged batches.
- > Iteratively improved domain models following **Domain Driven Design** approach, increasing efficiency in delivering new features.

### Embedded Software Developer

Autotrac

 Nov 2019 – Aug 2020

 Brasília, DF - Brazil

Maintained security and logistic features of an embedded system for a customized hardware and Linux kernel.

- > Employed dependency injection and other **SOLID principles** to enhance **C++** code quality and maintainability.
- > Implemented **monitoring** solutions to gather real-time performance data, ensuring optimal system efficiency and responsiveness.

### DevOps Consultant

IBM

 Jan 2019 – Nov 2019

 Brasília, DF - Brazil


Collaborated with multiple teams to improve observability of the back-end services of a prominent banking institution.

- > Contributed to self-discovering services feature using **etcd** key-value store, **consistent hashing** and a **federation of Prometheus**.
- > Employed **PromQL** to develop alerts that detected low performance of new deployments and potential DDoS attacks.

## INTERN EXPERIENCE

## EDUCATION

 Online

 Nov 2021 – Dez 2022

## LANGUAGES

**Ligature** A merged glyph.

**Kerning** A spacing adjustment between two adjacent letters.

In this report, we will explore the various factors that influence fluid dynamics in glaciers and how they contribute to the formation and behaviour of these natural structures.

### Sub Heading

1. The climate
  - Temperature
  - Precipitation
2. The topography
3. The geology

The equation  $Q = \rho Av + C$  defines the glacial flow rate.

The flow rate of a glacier is defined by the following equation:

$$Q = \rho Av + C$$

The flow rate of a glacier is given by the following equation:

$$Q = \rho Av + \text{time offset}$$

Total displaced soil by glacial flow:

$$7.32\beta + \sum_{i=0}^{\nabla} \frac{Q_i}{2}$$

Total displaced soil by glacial flow:

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$$7.32\beta + \sum_{i=0}^{\nabla} \frac{Q_i(a_i-\varepsilon)}{2}$$

$$v := \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix}$$

$$a \rightsquigarrow b$$

Number: 3

$-x$  is the opposite of  $x$

let name = [**Typst!**]

parbreak()

**strong emphasis** print(1) **https://[typst.app/](https://typst.app/)**

## HEADING

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- item

1. item

**Term** description

$x^2$

‘single’ or “double” , —



Tweet at us #ad ,

$x^2$

$x^2$

$x_1 \ x^2 \ 1 + \frac{a+b}{5} \ ^x y$