



Faculdade de Design,
Tecnologia e Comunicação
ue Universidade Europeia

Práticas e Ferramentas

Fundamentos da Programação

Fernando Marson

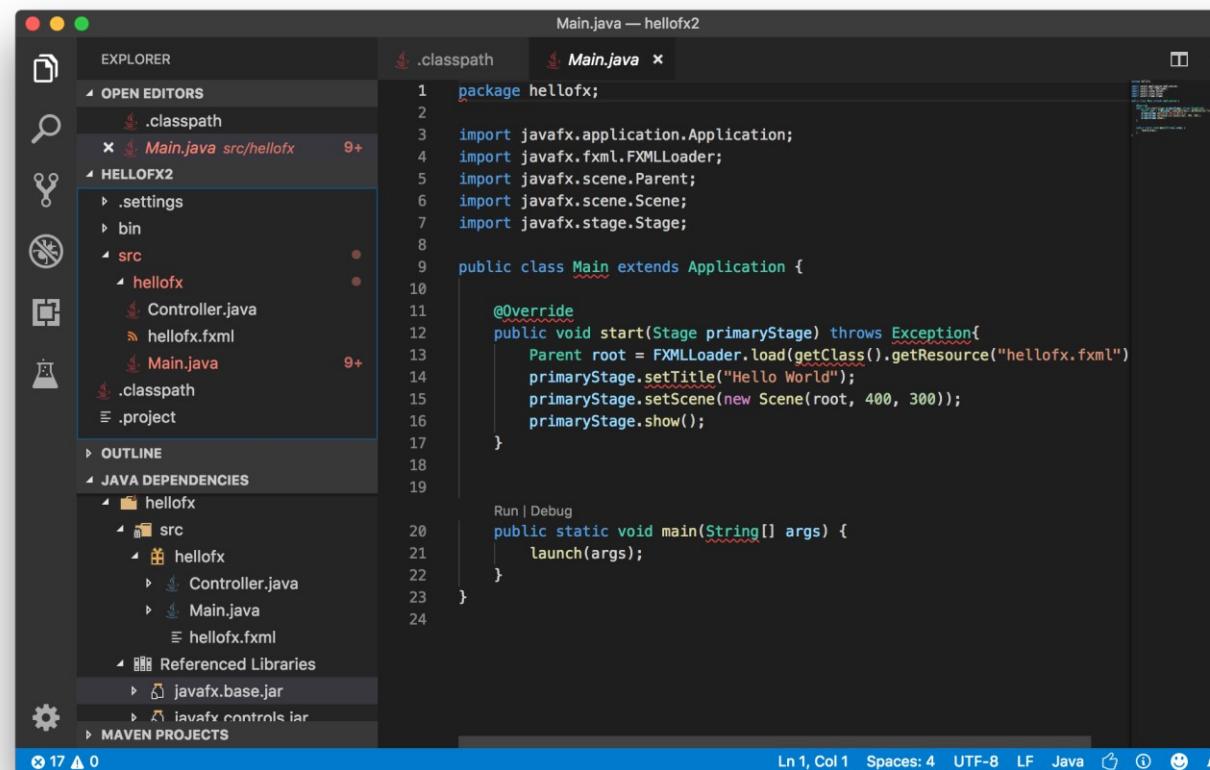
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Informações Gerais

- **Canvas - Fundamentos da Programação**
 - **LEIF001ON1**
 - <https://www.mycampus.pt/courses/38700>
 - **LEIF001ON2**
 - <https://www.mycampus.pt/courses/38888>
- **Repositório Github**
 - <https://github.com/FMarson/IADE-LEI-FP-25>
- **Gist (Exemplos de código)**
 - <https://gist.github.com/FMarson>

IDE - Integrated Development Environment

Uma IDE é um ambiente de desenvolvimento integrado, um programa de computador que reúne características e ferramentas de apoio ao desenvolvimento de software com o objetivo de agilizar este processo.



IDE - Integrated Development Environment



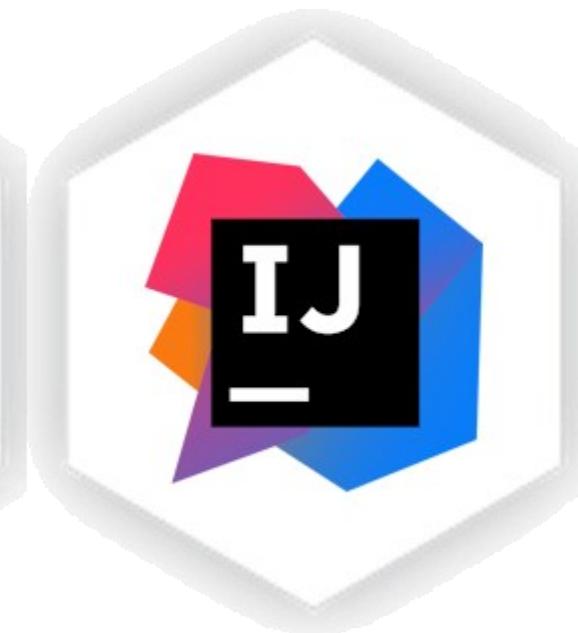
VSCode



NetBeans



Eclipse



IntelliJ

IDE - Integrated Development Environment



VSCode

A screenshot of the Visual Studio Code interface. The left sidebar shows a file tree with a project named 'HELLOFX2'. The main editor window displays Java code for a JavaFX application, specifically a Main.java file. The code initializes a stage and loads a FXML file. The bottom status bar indicates the code is in Java mode.

```
1 package hellofx;
2
3 import javafx.application.Application;
4 import javafx.fxml.FXMLLoader;
5 import javafx.scene.Parent;
6 import javafx.scene.Scene;
7 import javafx.stage.Stage;
8
9 public class Main extends Application {
10
11     @Override
12     public void start(Stage primaryStage) throws Exception{
13         Parent root = FXMLLoader.load(getClass().getResource("hellofx.fxml"));
14         primaryStage.setTitle("Hello World");
15         primaryStage.setScene(new Scene(root, 400, 300));
16         primaryStage.show();
17     }
18
19
20     public static void main(String[] args) {
21         launch(args);
22     }
23 }
```

[Download Visual Studio Code - Mac, Linux, Windows](#)



IntelliJ

A screenshot of the IntelliJ IDEA interface. The left sidebar shows a project structure with a 'src' folder containing Java files like 'NewProjectAction.java'. The main editor window shows the code for this class, which extends an action and implements a wizard. The bottom status bar indicates the code is in Java mode.

```
1 import ...
2
3 public class NewProjectAction extends AnAction implements DumbAware, NewProjectOrModuleAction {
4     @Override
5     public void actionPerformed(@NotNull AnActionEvent e) {
6         NewProjectWizard wizard = new NewProjectWizard(null, ModulesProvider.EMPTY_MODULES_PROVIDER,
7             NewProjectUtil.createNewProject(wizard));
8     }
9
10    @Override
11    public void update(@NotNull AnActionEvent e) {
12        updateActionIcon(e);
13        updateActionText(this, e);
14    }
15
16    @Override
17    public @NotNull ActionUpdateThread getActionUpdateThread() { return ActionUpdateThread.BGT; }
18
19    private static void updateActionIcon(@NotNull AnActionEvent e) {
20        if (NewWelcomeScreen.isNewWelcomeScreen(e)) {
21            NewWelcomeScreen.updateNewProjectIconIfWelcomeScreen(e);
22        }
23        else if (ExperimentalUI.isNewUI() && ActionPlaces.PROJECT_WIDGET_POPUP.equals(e.getPlace())) {
24            e.getPresentation().setIcon(ExpUiIcons.General.Add);
25        }
26    }
27
28 }
```

[Download IntelliJ - Mac, Linux, Windows](#)

Cadastrros Importantes

Links para registo de benefícios:

- [JetBrains Student Pack](#)
- [Github Education](#)
- [Office 365 Education](#)

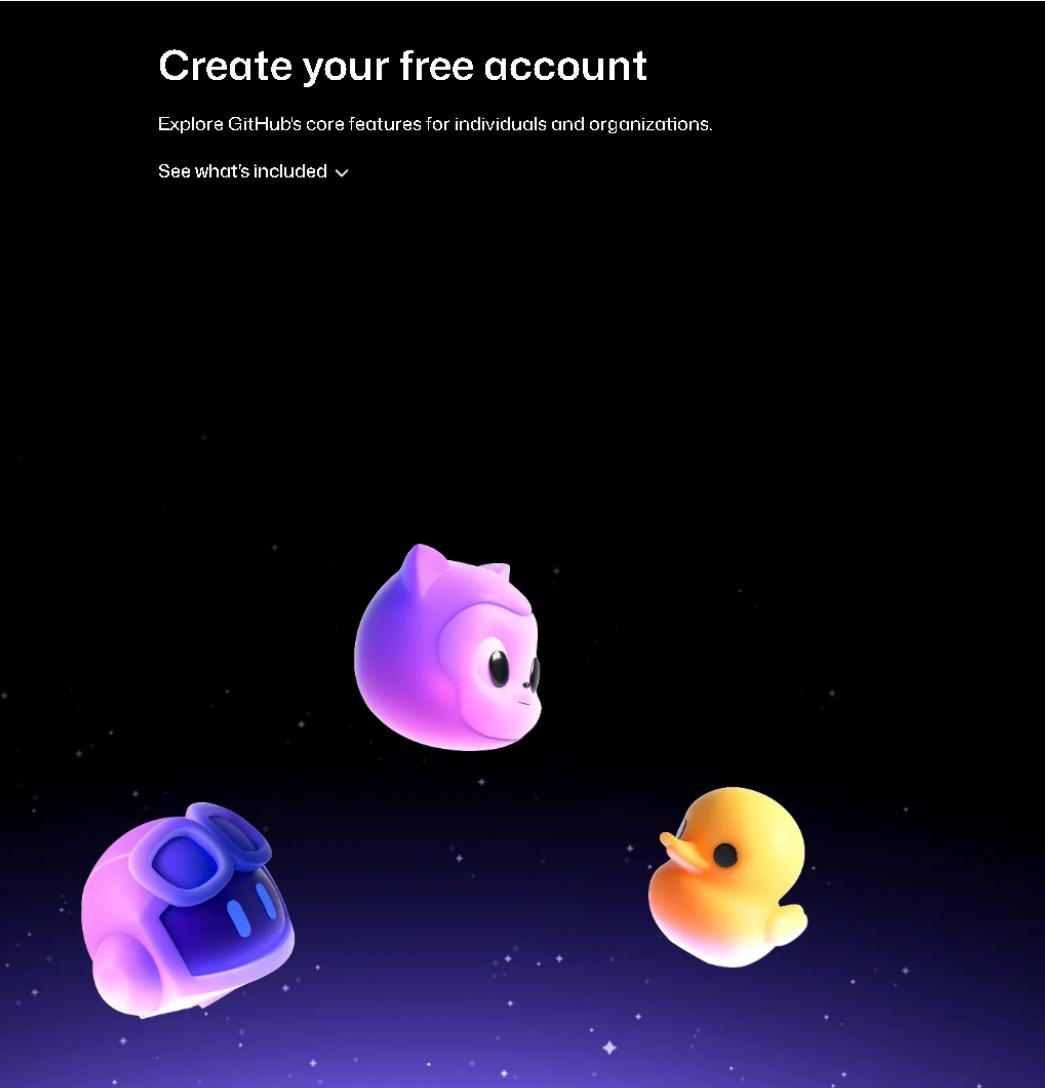
Cadastro e configuração do Github

Cadastro

Create your free account

Explore GitHub's core features for individuals and organizations.

See what's included ▾



Sign up for GitHub

[G Continue with Google](#)

[A Continue with Apple](#)

or

Email*

40009314@iade.pt

Password*

Password should be at least 15 characters OR at least 8 characters including a number and a lowercase letter.

Username*

FMarson-IADE

Username may only contain alphanumeric characters or single hyphens, and cannot begin or end with a hyphen.

Your Country/Region*

Portugal

For compliance reasons, we're required to collect country information to send you occasional updates and announcements.

Email preferences

Receive occasional product updates and announcements

[Create account >](#)

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.

Cadastro

Confirm your email address

We have sent a code to **40009314@iade.pt**

Enter code

Continue

Didn't get your email? [Resend the code](#) or [update your email address](#).

Cadastro



Here's your GitHub launch code!

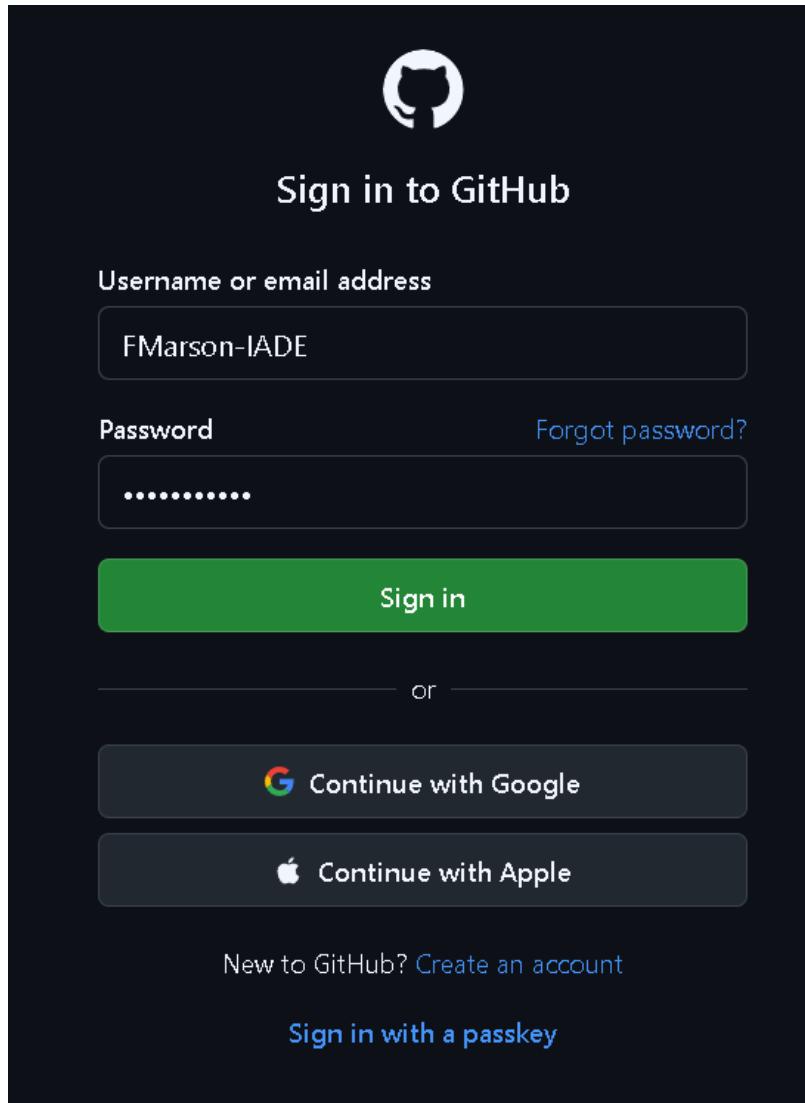


Continue signing up for GitHub by entering the code below:

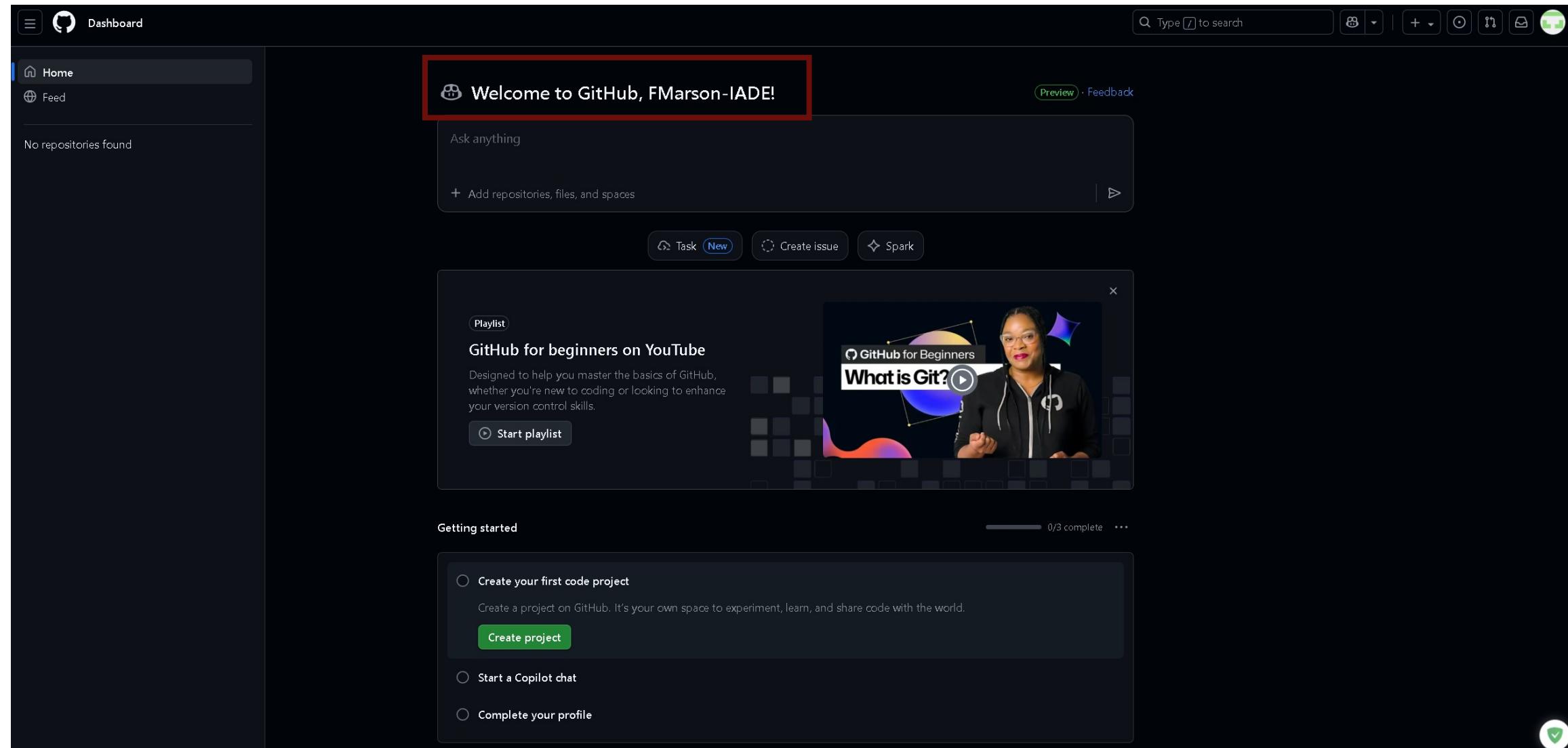
68966886

[Open GitHub](#)

Login

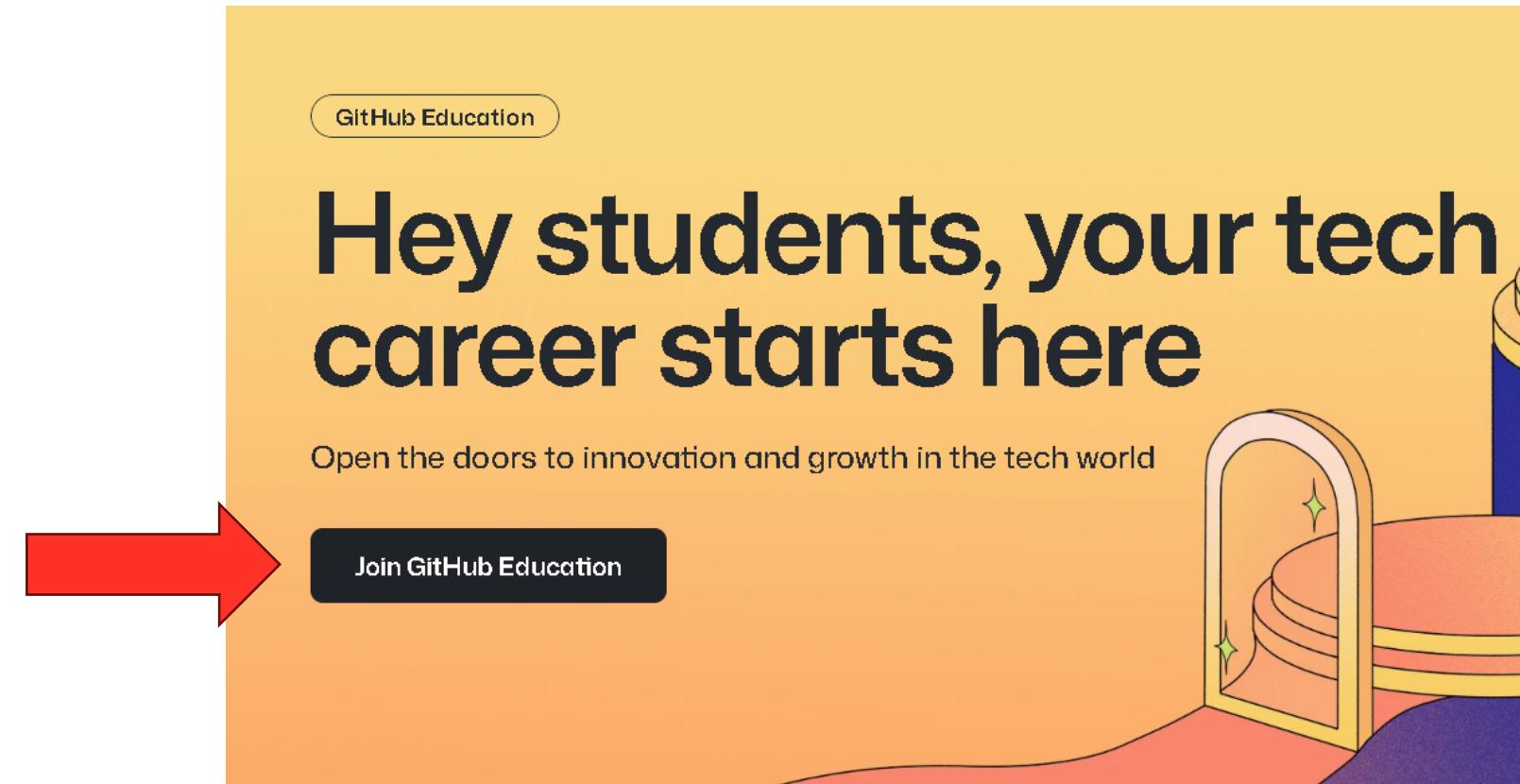


Login

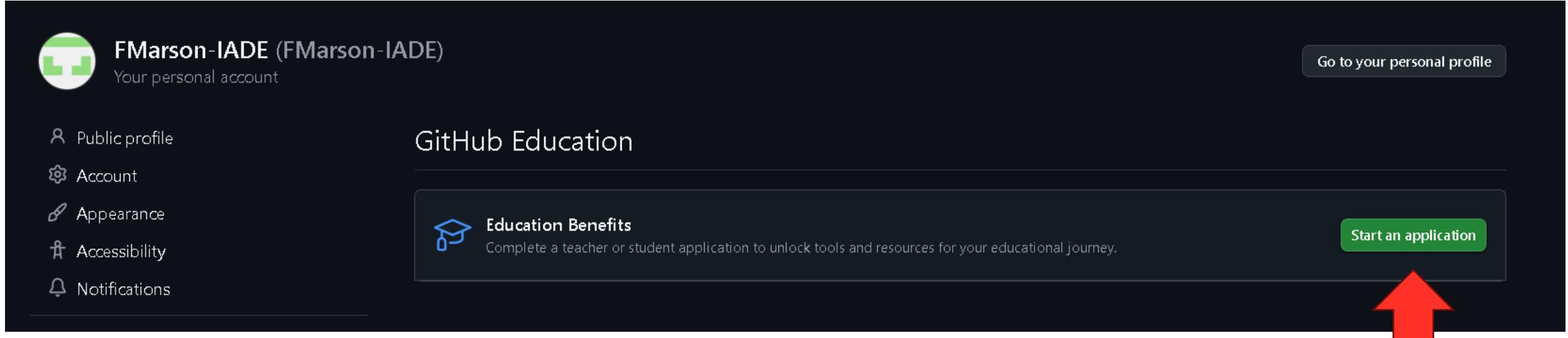


Cadastro no Github Education

- Acessar
 - <https://github.com/education/students>



Cadastro no Github Education



The screenshot shows a dark-themed GitHub Education application interface. At the top left is a user profile icon with the name "FMarson-IADE (FMarson-IADE)" and the subtitle "Your personal account". To the right is a button labeled "Go to your personal profile". On the left side, there is a sidebar with icons and labels: "Public profile", "Account", "Appearance", "Accessibility", and "Notifications". The main area is titled "GitHub Education". Below it, a box contains the heading "Education Benefits" with the subtext "Complete a teacher or student application to unlock tools and resources for your educational journey." A green button labeled "Start an application" is located at the bottom right of this box. A large red arrow points upwards from the bottom towards the "Start an application" button.

Cadastro no Github Education

- Selecione **Student**
- Clique no botão **Select this school**

Select this school

 **Education Benefits Application** ×

Select your role in education: *

Teacher

Student

 You have verified the email address 40009314@iade.pt on your GitHub account. That academic domain is associated with the school Institute of Visual Arts, Design and Marketing, Lisbon.

Select this school

What is the name of your school? *

×

If your school is not listed, then enter the full school name and continue. You will be asked to provide further information about your school on the next page. A minimum of two characters is required to find your school.

What is your school email address? *

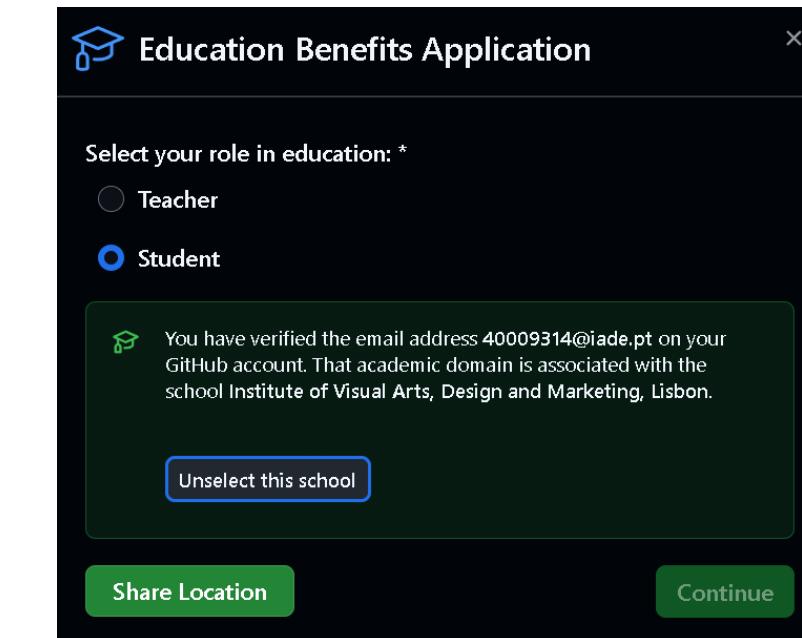
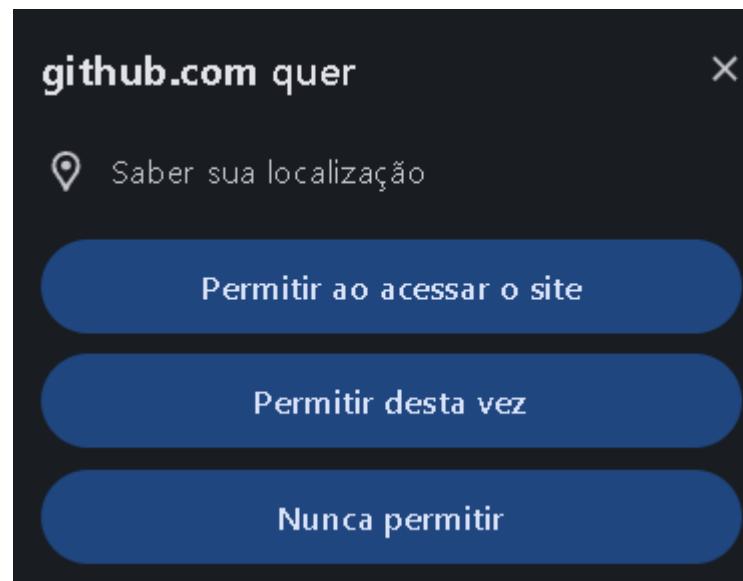
Have a different email address you use with your school? [Add it here.](#)

[Privacy Policy](#)

Share Location **Continue**

Cadastro no Github Education

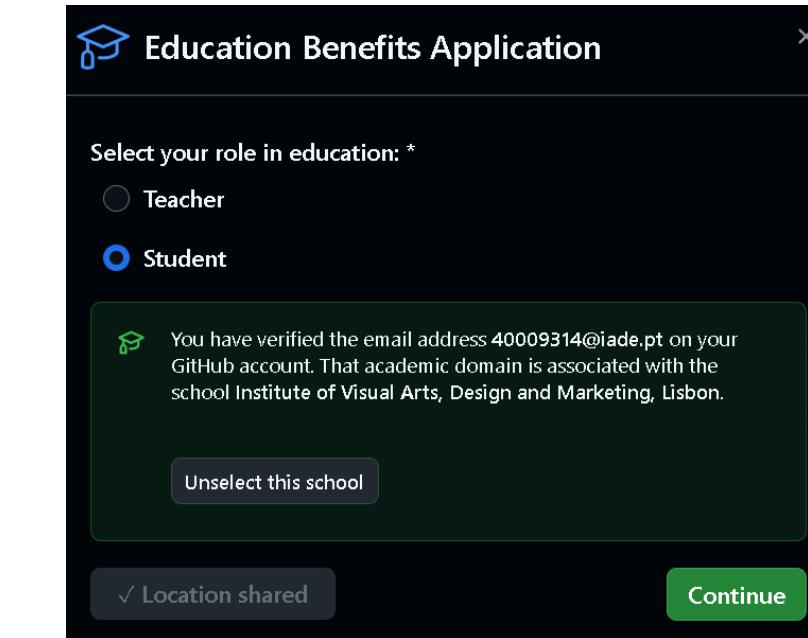
- Clique no botão **Share Location**
- Permita o acesso à sua localização.



Cadastro no Github Education

- Clique no botão

Continue



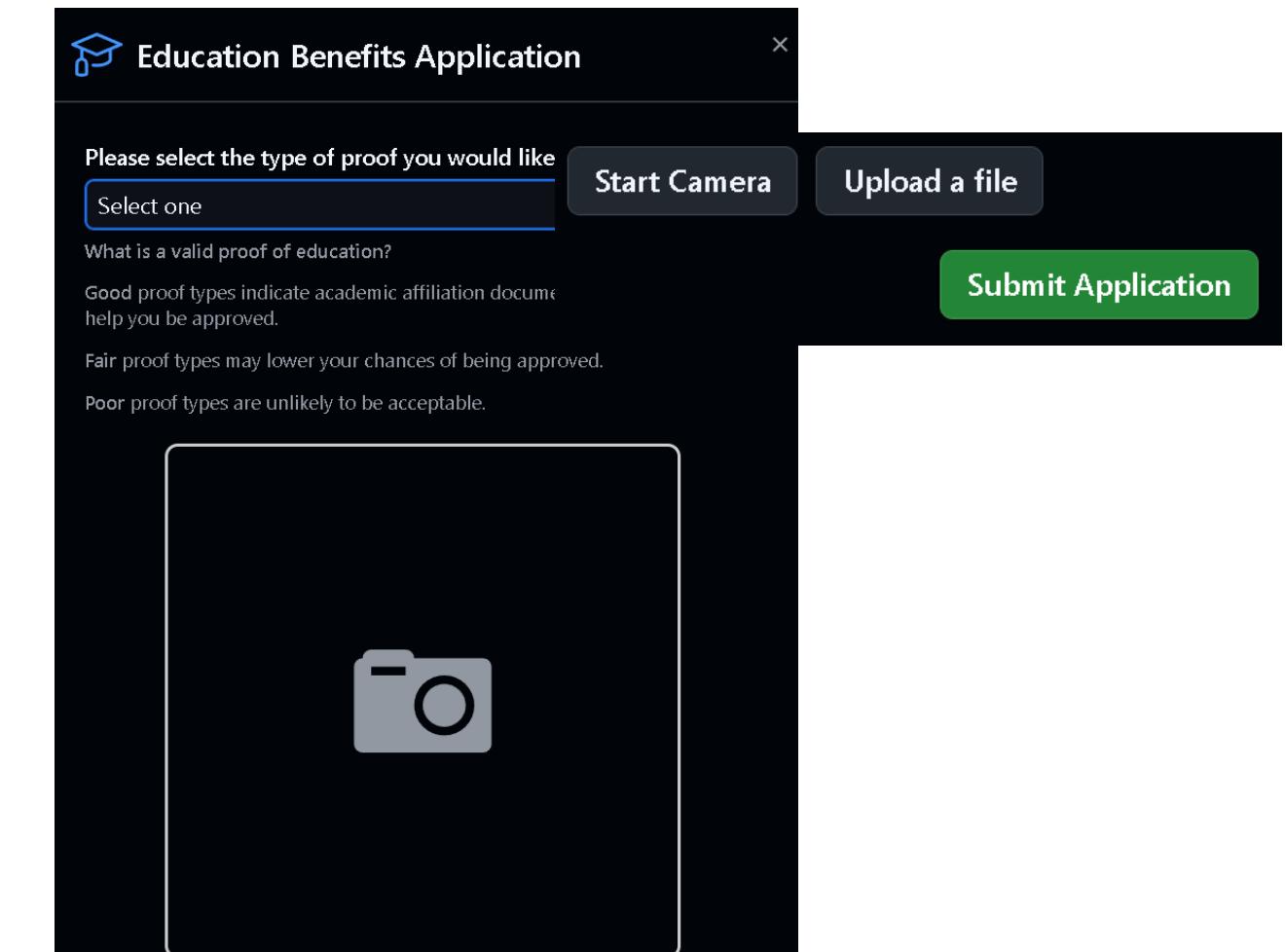
Cadastro no Github Education

- Escolha uma forma de validação do vínculo com o IADE.

Please select the type of proof you would like to provide *

Select one

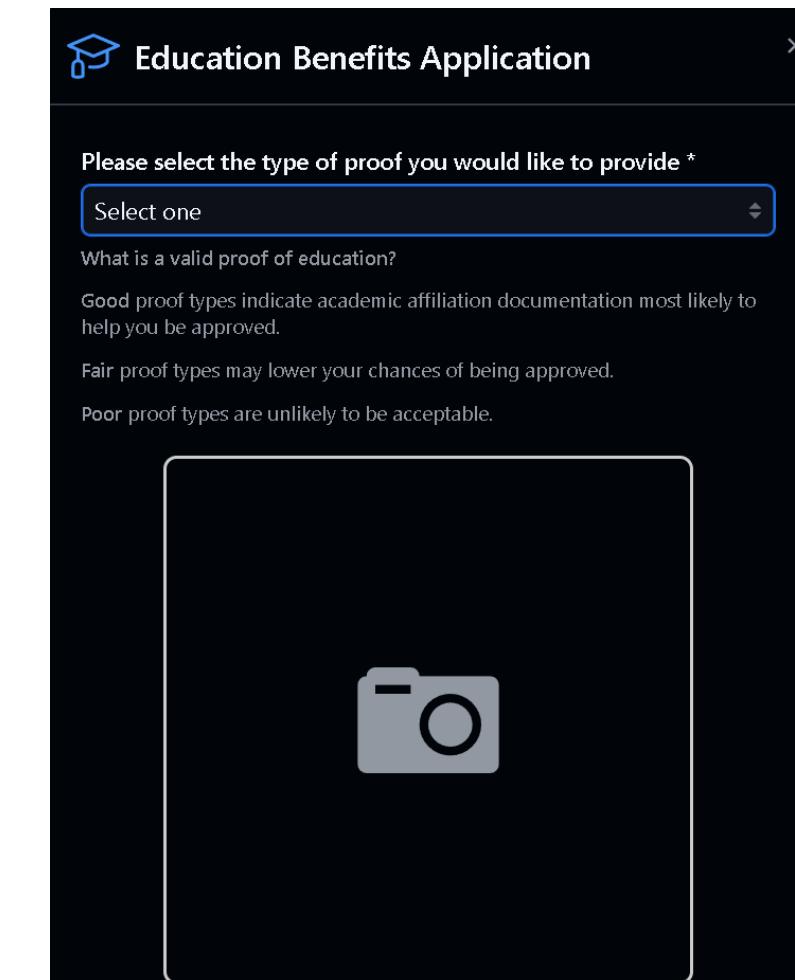
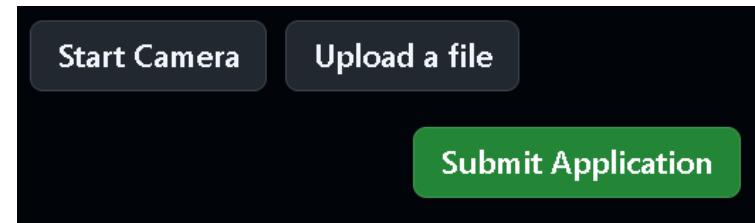
- 1. Dated school ID - Good
- 2. Dated official/unofficial transcript - Fair
- 3. Dated enrollment letter on school letterhead - Fair
- 4. Dated class schedule for the semester - Poor
- 5. Dated syllabus for a class - Poor
- 6. Dated receipt from bursar - Poor
- 7. Dated scholarship/financial aid letter - Poor
- 8. Other (Example: Screenshot of school portal) - Poor



Cadastro no Github Education

- Escolha uma forma de validação do vínculo com o IADE.
- Após tirar uma foto ou enviar um ficheiro, clique no botão

Submit Application



Instalação do Git e do Github Desktop

Git

- Fazer download do **Git for Windows** e instalar
 - <https://git-scm.com/install/windows>
- Fazer download do **Git Large File Storage (LFS)** e instalar
 - <https://git-lfs.com>

Github Desktop

- Fazer download do Github Desktop
 - <https://desktop.github.com/download>
- Fazer login com a conta criada no site do Github

Curso Online



Curso de

Git e GitHub [20 Horas]

GRÁTIS

<https://www.cursoemvideo.com/curso/curso-de-git-e-github>