



# AFONSO BARRACHA

Python Econometrics Analyst  
TypeScript & GraphQL Developer

## Personal Info

- ♂ Male
- 📅 10/02/1998
- 📍 Oeiras, Lisboa, Portugal

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## Social Media Info

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## Expertise Areas

- 📈 Timeseries Econometrics
- 🖥 Back-end Development

## Spoken Languages

- 🇵🇹 Portuguese
- 🇬🇧 English

## Programming Languages

- 🐍 Python
- 📘 TypeScript
- 🦀 Rust
- 🔵 Dart

## ABOUT ME

I am an Economics graduate with a passion for programming. After learning the basics of programming in university, I taught myself Python Data Science and GraphQL back-end programming with TypeScript and Rust.

## FORMAL EDUCATION

**Lisbon Higher Institute of Engineering**, Lisbon, Portugal – Electrical Engineering  
September 2016 - July 2017  
Finished 1st year.

**Beira Interior University**, Covilhã, Portugal – BSc. Economics  
September 2017 - June 2021  
Finished with a B average of 75%.

**University of Jena**, Jena, Germany – Erasmus in MSc. Innovation Economics  
October 2019 - July 2020  
Finished 1st semester. 2nd semester got interrupted by COVID-19.

**UpSkill**, Lisbon, Portugal – Apprenticeship in AWS Cloud  
February 2022 – August 2022  
6 months apprenticeship in AWS Cloud.

## INFORMAL EDUCATION

- FreeCodeCamp.com**, “JavaScript Algorithms and Data Structures”.
- Udemy.com**, “MERN Stack Front To Back”, “Python Django Dev To Deployment”, “NestJS Zero to Hero” and “Machine Learning A-Z”.
- Codecademy.com**, “Career Path: Data Science”.

## PERSONAL PROJECTS

**GraphQL Fastify Template** – NestJS Mercurius GraphQL Monolith Template  
Language & Framework: NestJS - TypeScript  
Code: <https://github.com/tugascript/nestjs-graphql-monolith-fastify>.

**Puzzle Hack** – Flutter Puzzle  
Language & Framework: NestJS - TypeScript & Flutter - Dart  
Back-end code: <https://github.com/tugascript/flutter-slider-backend>.  
Application code: <https://github.com/tugascript/flutter-slider-2>.

**Cropper** – Image Editor  
Language & Framework: NextJS – TypeScript  
Link: <https://editor.tugascript.com>.  
Code: <https://github.com/tugascript/basic-image-editor>.

**Migration Effects on Income Inequality** – Timeseries Analysis  
Language & Framework: Python, Pandas & Statsmodels  
Code: <https://colab.research.google.com/drive/1Z8PnnhsDuLZB30Qom4s68rAv80lt6FVa?usp=sharing>.

## ONGOING PROJECTS

**TugaScript** – Personal Blog: <https://github.com/tugascript/nestjs-blog>

## FRAMEWORKS & TECHNOLOGIES

Python	TypeScript	Rust	Dart
Pandas Matplotlib Statsmodels	NestJS Apollo Mercurius	Tokio Actix-Web Async-GraphQL	Flutter