

# Gustavo Rocha da Silva

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## EDUCATION

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**Faculty of Engineering of the University of Porto** | Porto, Portugal | 2013 - 2018

BSc (3 years) + MSc (2 years) in Informatics and Computing Engineering

Current grade: 18/20

## EXPERIENCE

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**Teaching Assistant** | Faculty of Engineering of the University of Porto | Porto, Portugal | 2016

- Assisted the professors of the following courses, helping students by answering their questions and monitoring their progress:
  - Programming (Feb - May 2017) - transmits knowledge on procedural and object oriented programming.
  - Graphical Applications Laboratory (Oct - Dec 2016) - focused in the development of practical works, namely in the areas of Computer Graphics and Interfaces, Logic Programming and Operating Systems.
  - Computer Graphics (Feb - Jun 2016) - aims to transmit knowledge of concepts, techniques, algorithms, computer graphics technologies and architectures.

## PROJECTS

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- Racinix – racing game with procedural track generation, physics and multiplayer mode, developed in low level C for the Minix OS – [github.com/gtugablue/LCOM-Racinix](https://github.com/gtugablue/LCOM-Racinix)
- LPOOL – pool game constituted by a desktop server application in Java and an Android client that works as the remote controller – [github.com/gtugablue/LPOOL](https://github.com/gtugablue/LPOOL)
- MOD X – 2-player boardgame with its logic developed in Prolog and the 3D user interface in Javascript using WebGL – [github.com/andrelago13/LAIG](https://github.com/andrelago13/LAIG)
- Associação Cuidadores – had the role of scrum master while developing a website, forum and mobile app for a non-profit organization – [github.com/gtugablue/LDSO](https://github.com/gtugablue/LDSO)

## PRESENTATIONS

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- Participation in “Semana Profissão: Engenheiro” with the projects “Racinix” (Mar 2015), “MOD X” (Mar 2016), “Lift Management” (Apr 2017) and “Project Management Optimizer” (Apr 2017).
- Participation in “University of Porto’s Science, Teaching and Innovation Display” with the projects “LPOOL” and “MOD X” (Mar 2016).
- Lectured an eight-hour C++ workshop (Oct 2016) and a three-hour Python workshop (Feb 2017).

## SKILLS

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- Technologies/languages: C/C++, Java, HTML, PHP, CSS, SQL, Javascript, WebGL, Android, Prolog, Python
- Cambridge Certificate in Advanced English (Level C1).
- Comfortable with the use of common collaboration tools such as GitHub, Slack and Trello.

## EXTRACURRICULAR

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- Volunteered in the Operations Team of Web Summit 2016.
- Participated in multiple programming, engineering and creativity events such as:
  - ENEI (National Meeting of Students of Computer Science)
  - European BEST (Board of Engineering Students of Technology) Engineering Competition
  - BEST SciTech (2nd place)
  - Porto Summer of Code
  - Google HashCode (306th place – 4th best of Portugal)
- Member of NIAEFEUP (Jan 2016 – Present) – helped in events, workshops and currently responsible for a project already in use that aims to automate the process of scheduling exams in my faculty.