

# Henrique Rocha

Telecommunications and Informatics

## about

Henrique Duarte Lopes  
Rocha

Rua dos Cedros nº100  
Alto do Lagoal  
2760-025 Caxias  
Portugal

(+351) 938781922

hdlopesrocha91  
@gmail.com  
WebSite  
YouTube

## languages

portuguese (native)  
english (fluent)

## programming

♥ Java  
(Android,  
PlayFramework,  
LWJGL, MapReduce),  
C, C++ (OpenGL), C#  
(XNA, Windows Forms,  
WPF, Ipsolve), VB,  
Python, Scala,  
Scheme, HTML, CSS  
(Bootstrap), JavaScript  
(jQuery, AJAX, WebGL,  
WebRTC), PHP  
(WordPress), GLSL,  
HLSL.

## databases

DynamoDB, MongoDB,  
MySQL, Neo4j,  
PostgreSQL, SQLite.

## soft skills

Time Management  
Problem-Solving  
Team Player  
Self Confidence  
Adaptability

## education

- 2013–now **Master of Science** Instituto Superior Técnico - Taguspark  
Telecommunications and Informatics Engineering
- 2009–2014 **Bachelor of Science** Instituto Superior Técnico - Taguspark  
Communication Networks Engineering
- 2006–2009 **Secondary School** Escola Secundária Luís de Freitas Branco, Paço de Arcos  
Science & Technology

## experience

- 11 2014  
(ongoing) **Web Development** Bullray  
*Development of an architecture for a chat application. Experience with Android, PlayFramework and MongoDB.*
- 04 2014  
(6 months) **Scientific Initiation Scholarship** INESC  
*Frontend Development for Provide Results's Bimk project. Experience with PlayFramework, Revit API and GIT.*
- 09 2013  
(6 months) **Scientific Initiation Scholarship** CEG-IST  
*Programming Decision Analysis Software (MACBETH). Development of an algorithm to suggest judgements based on past decisions using Ipsolve.*
- 08 2013  
(2 weeks) **Summer Work** LCG  
*Frontend development for Decision Analysis Software using ASP.NET.*
- 11 2012 **Pizza Night Competition** Microsoft Lisbon Experience  
*2° place on Windows Phone Category with Infinity Edge game.*
- 08 2006  
(1 month) **Garbage Collector** Jovens em Movimento, Oeiras  
*Cleaning and maintenance of public spaces.*

## applications

- 2015 **Bomb Raider** Google Play  
*Bomb Raider is a simple singleplayer and multiplayer game where the goal is destroying all enemies in the map.*
- 2013 **OpenGlobe** Instituto Superior Técnico  
*Modeling Earth surface with GPS devices and topographic collected data. It is also possible to predict satellites position through ephemeris data.*
- 2012 **Infinity Edge (Windows Phone 7)** windows marketplace  
*First Person Shooter with spaceships.*
- 2011 **Era of Empires** Personal Project  
*3D environment generator and Real Time Strategy game engine.*

## interests

3D Studio Max, Photoshop, Game Development, Web Design, Network Security, Jogging and Yoga.