RÚBEN ANDRÉ LETRA BARREIRO

Computer Science Engineer & IT/IS Programmer/Technician

- Academic E-mail @ FCT NOVA #1: r.barreiro@campus.fct.unl.pt
- Academic E-mail @ FEUP #1: up201808917@fe.up.pt
- Academic E-mail @ FEUP #2: up201808917@g.uporto.pt
- Personal E-mail #1: ruben.barreiro.92@gmail.com
- Personal E-mail #2: ruben.barreiro.92@outlook.com
- Personal E-mail #3: rubenbarreiro92@yahoo.com
- Mobile Number 1: +351 911 097 424
- Birthday: November 19, 1992
- Hometown: Avenidas Novas, Lisbon, PT (São Sebastião da Pedreira)
- Current Location: Almada, Setúbal, PT (Monte de Caparica)
- 🗞 GitHub's Portfolio/Personal Blog: https://rubenandrebarreiro.github.io/
- GitHub: https://github.com/rubenandrebarreiro/
- ★ GitLab: https://gitlab.com/rubenandrebarreiro/
- Atlassian Bitbucket: https://bitbucket.com/rubenandrebarreiro/
- Azure DevOps: https://dev.azure.com/rubenandrebarreiro/
- MathOverflow: https://mathoverflow.net/users/134256/rúben-andré-barreiro/
- StackOverflow: https://stackoverflow.com/story/rubenandrebarreiro/
- A Academia: https://utaustinportugal.academia.edu/rubenandrebarreiro/
- Mendeley: https://www.mendeley.com/profiles/ruben-andre-barreiro/
- DRCiD: https://orcid.org/0000-0003-2572-8949
- Publons: https://publons.com/researcher/1670842/ruben-andre-barreiro/
- ResearchGate: https://www.researchgate.net/profile/Ruben_Barreiro/
- ResearcherID: http://www.researcherid.com/rid/A-6299-2019



MOST PROUD OF



Courage I had

I always work to take a sinking ship and try to make it float



Persistence & Loyalty

I always have shown my willingness and attitude, even in front of hard moments in life and work



Constant Improvement

I'm always obsessed in improve myself and get better than I was before



Inspiring men in tech

I'm a hard-working and passionate Computer Science and Engineering's student with huge dreams



◀ LIFE PHILOSOPHY

"Talent without hard working is nothing!"



LANGUAGES

Native Languages:

Portuguese



Other Languages:

English Spanish German

French



PROFESSIONAL EXPERIENCE

App Designer & Developer

U.Porto Media Innovation Labs

- September 2018 December 2018
- Porto Center, Porto, PT
- https://mil.up.pt/
 https://sigarra.up.pt/feup/pt/web_page.inicial
- https://www.bright.pt/
- http://www.acreditar.org.pt/
- Designing and development of the interface of the "Everyone Is a Hero" app for mobile devices' Android and iOS operative systems
- Designing of the mobile app in Adobe Illustrator CC and Adobe Photoshop CC
- Development of the mobile app in Unity 3D, C#, SQL and JSON
- The "Everyone Is a Hero" app was developed with the collaboration of U.Porto Media Innovation Labs, Faculty of Engineering of University of Porto (FEUP), Bright Digital and Acreditar
- The app aims to offer interactive support and information to families, educators and volunteers of children who suffer of cancer diseases
- Other goal of the app, it's to, in a near future, be linked to the video game app for these same children, called "Hope", that's being also developed by Bright Digital
- Presentation in the TalkABit 2019 conference

Scientific Research & Development Internship

LSTS (Laboratório de Sistemas e Tecnologia Subaquática / Underwater Systems and Technology Laboratory)

- October 2018 November 2018
- Paranhos/São João do Porto, Porto, PT
- https://lsts.fe.up.pt/
- https://sigarra.up.pt/feup/pt/web_page.inicial
- Scientific Research and Development Internship in Endurance Project in LSTS (Laboratório de Sistemas e Tecnologia Subaquática / Underwater Systems and Technology Laboratory) at Faculty of Engineering of University of Porto (FEUP)
- Research and Development Project based in the context of remote control of AUVs (Autonomous Underwater Vehicles) with a continuous operation duration of more than 48 hours, using the RIPPLES and NEPTUS frameworks/tools, developed by LSTS (Laboratório de Sistemas e Tecnologia Subaquática / Underwater Systems and Technology Laboratory)
- Development of some features to RIPPLES and NEPTUS frameworks/tools, using Java and Spring Boot framework

SOFT SKILLS

Communication Skills:

Able to Listen

Nonverbal Communication

Reading Body Language

Storyteller

Persuasive

▲ Critical Thinking:

Adaptable Artistic Sense Creativity

Design Sense Desire to Learn

Flexible Innovative Problem Solving

Research Thinking Outside the Box

Willingness to Learn

C Leadership:

Deal-making Decision Making

Delegation Inspiring Leader

Management Mentoring Motivating

Supervising | Talent Management

Positive Attitude:

Confident Cooperative Courteous

Energetic Enthusiastic Friendly

Hard-working (18/24) High Energy

Honest Patient Respectable

Sense of Humor

Teamwork:

Collaborative

Dealing with Difficult Situations

Empathetic Influential Networking

Social Skills Team Player

Work Ethic:

Attentive Competitive Dedicated
Independent Motivated

Multitasking Perseverant Persistent
Planning Reliable Resilient

II PROFESSIONAL EXPERIENCE

Scientific Researcher & Developer

NOVA LINCS (Informatics' Labs at Faculty of Sciences and Technology, New University of Lisbon - Caparica Campus) and Carnegie Mellon University Portugal Program

- February 2017 January 2018
- Monte de Caparica, Setúbal, PT
- http://hyrax.dcc.fc.up.pt/
- http://nova-lincs.di.fct.unl.pt/
 https://www.fct.unl.pt/
- https://cracs.fc.up.pt/
 https://www.fc.up.pt/fcup/index.php
- http://www.cmuportugal.org/
- https://www.cmu.edu/
- Scientific Research and Development in Hyrax Project in NOVA-LINCS' Labs at Faculty of Sciences and Technology, New University of Lisbon - Caparica Campus (FCT NOVA | FCT-UNL)
- Research and Development Project based in the context of Edge Computing
- Developing work in the theme "A producer/consumer work queue eventually consistent in Android", under the supervision of Prof. Hervé Miguel Paulino
- Developing of a prototype in Android and Java, called Hyrax DiCE (Distributed Collaborative Computing at the Edge)
- Final Approval Grade: 17 of 20

Waiter

Delmare Café & Beach Club

- ## June 2016 August 2016
- Ocsta da Caparica, Setúbal, PT
- http://www.delmarecafe.com/pt-pt
- Wait service
- Organization of events (Weddings, Bachelor parties, Birthday parties, Night parties & Sunset parties)
- Bar service
- Cleaning service

Information & Technology Support Technician

RE/MAX Portugal and MaxFinance Portugal (RE/MAX Central and MaxFinance Central Offices)

- Movember 2012 March 2013
- Rato, Lisbon, PT
- https://www.remax.pt/
- https://www.maxfinance.pt/
- Enterprise's computers maintenance
- Marketing (Production of brochures & leaflets)
- Enterprise's social networks management (Facebook page management of the company)
- Emailing (Sending e-mails & info-mails to company's contacts)

Professional Intern\Trainee

Fnac Portugal (Fnac Chiado Store)

- Movember 2011 January 2012
- Paixa-Chiado, Lisbon, PT
- https://www.fnac.pt/
- Retail and stock replacement (Sections of Computers, Software, GPS & Mobile Phones)
- Event photographer "Encontro o Natal ao Anoitecer"
- Final Approval Grade: 17 of 20

SOFT SKILLS

Work Ethic:

Results-oriented | Self-directed

Self-monitoring | Self-supervising

Strategic Planning | Time Management

Trainable

♥ INTERESTS

☐ Computer Science & Engineering:

2D/3D Programming

Artificial Intelligence

Augmented & Virtual Reality

Autonomous & Intelligent Agents

Big Data | Bioinformatics

Cloud Computing | Compilers

Computational Game Theory

Computer Architectures

Computer Games Computer Graphics

Computer Networks

Computer Simulation

Computer Systems | Computer Vision

Computing | Concurrency & Parallelism

Cryptography Cybernetics

Cybersecurity

Data Analysis & Modelling Data Mining

Data Science Databases

Distributed Computing & Systems

Edge & Fog Computing

High-Performance Computing

Informatics Internet of Things

Internet & Computer Network's Security

Logic | Logic Programming

Machine & Deep Learning

Mobile & Pervasive Computing

Mobile Communications

Multi-threading Systems

Neural Networks | Parallel Computing

Quantum Communication

Quantum Computing

Quantum Cryptography

Quantum Internet & Networks

Robotics

ACADEMIC EDUCATION

MSc. in Computer Science and Engineering

Faculty of Sciences and Technology of New University of Lisbon (FCT NOVA | FCT-UNL)

- 🛗 January 2019 Present
- Monte de Caparica, Setúbal, PT
- https://www.fct.unl.pt/
- Final Global Points Average: 16 of 20
- Core Courses/Subjects Covered:
- **Operations Research**
- Intelligent Multi-Agent Systems
- Computer Vision
- Interpreters & Compilers
- Knowledge & Reasoning Systems
- Machine Learning
- Deep Learning
- Network & Computer Systems Security
- Entrepreneurship
- Intelligent Sensors & Actuators
- Web Servers
- Mobile Application Development
- **Ubiquitous & Pervasive Applications**
- Cloud Computing & Systems
- Concurrent & Parallel Computing
- **GPU's Programming**
- Clusters' Computing
- Theory of Computational Games
- Data Analysis & Mining
- Cryptography
- Dependable Distributed Systems & Blockchains
- Games & Simulation
- Multimedia Computing
- Web Design & Development
- Quantum Physics & Mechanics
- **Quantum Computing**

You can view some of my academic and personal projects by clicking in the links below:

- https://github.com/rubenandrebarreiro/
- https://gitlab.com/rubenandrebarreiro/
- https://bitbucket.org/rubenandrebarreiro/
- https://rubenandrebarreiro.github.io/

INTERESTS

Internet & World Wide Web **Applications:**

Back-End Programming

Front-End Programming

Full-Stack Programming

Web & Internet Applications' Design

Others:

Business Arts

Computer Engineering

Computer Science Design Drawing

Engineering Enterprise's Management

Fashion Fitness **Image Editing**

Marketing Multimedia Music

Photography Poetry Science

Scientific Research Sport

Technology

</> PROGRAMMING LANGUAGES

>_ Imperative Languages:

Pascal C

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Multi-paradigm Languages:

Visual Basic .NET

C++

Java

OCaml (Objective Caml)

C# (C Sharp)

TypeScript

Pvthon

Go (Golang)

Ruby

Lisp

Scala

Lua Perl Julia

Statically Typed Languages:

Kotlin



x² Multi-paradigm Numerical Computing **Environments:**

MATLAB (Matrix Laboratory)



Low-level Languages:

Assembly



ACADEMIC EDUCATION

BSc. in Computer Science and Engineering

Faculty of Sciences and Technology of New University of Lisbon (FCT NOVA | FCT-UNL)

- ## September 2013 June 2018
- Monte de Caparica, Setúbal, PT
- https://www.fct.unl.pt/
- # Final Global Points Average: 15 of 20
- Q Scientific Research at NOVA LINCS' Labs
- Core Courses/Subjects Covered:
- Calculus & Mathematics Analysis
- Algebra
- Algebraic Geometry
- Logic & Digital Systems
- Discrete Mathematics
- Low-level Programming
- **Object Oriented Programming**
- **Physics**
- Logic Programming
- **Operative Systems and Architectures**
- **Data Structures**
- **Probability Calculus**
- **Statistics**
- **Databases**
- **Functional Programming**
- Computer Networks Internet & Network Protocols
- Computer Graphics and 3D Interfaces
- Artificial Intelligence
- Searching Algorithms
- Genetic Algorithms
- **Neural Networks**
- Modelling of Programming Languages
- Graphs Theory & Algorithms
- **Linear Programming**
- Distributed Computing & Systems
- **Basic Notions of Internet Security**
- Multi-Threading

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- https://gitlab.com/rubenandrebarreiro/
- https://bitbucket.org/rubenandrebarreiro/
- https://rubenandrebarreiro.github.io/

</>> PROGRAMMING LANGUAGES

Markup Languages:

HTML (Hypertext Markup Language)

XML (Extensible Markup Language)

Interpreted Languages:

JavaScript



♥ Style Sheet Languages:

CSS (Cascade Style Sheet)



Object-relational Database Languages:

Microsoft:

Microsoft SQL Server

MySQL **Oracle SQL PostgreSQL**



? Query and Functional Programming Languages:

XQuery (XML Query)



■ Server-side Scripting Languages:

PHP (PHP: Hypertext Preprocessor)



Software Modelling Languages:

UML (Unified Modelling Language)

 □ Declarative Languages for Software Modelling:

OCL (Object Constraint Language)

Formal Modelling and Specification Languages:

VDM++

(Vienna Development Method ++)



Declarative Specification Languages:

Alloy



Declarative Logic Languages:

Datalog Prolog



■ Mobile Development Languages:

Android iOS



m HIGH SCHOOL EDUCATION

Professional Course of Technician of Computer Management and Programming

High School of Monte de Caparica

- **September 2009 July 2012**
- Monte de Caparica, Setúbal, PT
- https://www.aecaparica.pt/
- # Final Global Points Average: 14 of 20
- Internship at Fnac Portugal (Fnac Chiado Store)
- Final Project "Scholar Auctions' Website"
- Core Courses/Subjects Covered:
- Operative Systems and Architectures
- Databases
- Basic Notions of Computer Networks
- Web Design
- Web Forms and Users' Data Validations

You can view some of my academic and personal projects by clicking on the links below:

- https://github.com/rubenandrebarreiro/
- https://gitlab.com/rubenandrebarreiro/
- https://bitbucket.org/rubenandrebarreiro/
- https://rubenandrebarreiro.github.io/

REFEREES

Prof. Ana Luísa Custódio (FCT NOVA | FCT-UNL)

alcustodio@fct.unl.pt

Dept. Mathematics, Ed. VII - Office 54 Faculty of Sciences and Technology, New University of Lisbon, Caparica Campus, Setúbal, PT 2829-516 - Caparica, Portugal

Prof. Hervé Miguel Paulino (FCT NOVA | FCT-UNL)

herve.paulino@fct.unl.pt

Dept. Informatics, Ed. II - Office P2/16 Faculty of Sciences and Technology, New University of Lisbon, Caparica Campus, Setúbal, PT 2829-516 - Caparica, Portugal

Prof. Pedro Duarte Medeiros (FCT NOVA | FCT-UNL)

pdm@fct.unl.pt

Dept. Informatics, Ed. II - Office P3/9 Faculty of Sciences and Technology, New University of Lisbon, Caparica Campus, Setúbal, PT 2829-516 - Caparica, Portugal

Prof. António Lobo Ravara (FCT NOVA | FCT-UNL)

aravara@fct.unl.pt

Dept. Informatics, Ed. II - Office P3/10 Faculty of Sciences and Technology, New University of Lisbon, Caparica Campus, Setúbal, PT 2829-516 - Caparica, Portugal

</> PROGRAMMING LANGUAGES

Preparation Languages for Documents, Papers and Articles:

TeX



MIDDLEWARE, APIS & FRAMEWORKS

Hardware, Sensors & Microcontrollers:

Arduino



** Robotics Middleware:

ROS (Robot Operating System)



APIs:

2D and 3D Programming:

WebGL OpenGL



Document-oriented Databases (NoSQL):

MongoDB



Real-time Computer Vision Libraries:

OpenCV



Open-source Software Graphics Libraries:

Mesa3D (Mesa 3D Graphics Library)



Open-source Computer Tracking Libraries for Creation of Augmented Reality Applications:

ARToolKit



★ Heterogeneous Computing APIs:

OpenCL (Open Computing Language)



Centralized Services for Distributed Systems:

Apache ZooKeeper



Open-source Streams-processing:

Apache Kafka



* VOLUNTEERING

Civil Rights and Social Action's Volunteer

Lifeshaker Associação/Upgrading Participation E6G (Civil Rights and Social Action Initiative from Municipal Council of Almada)

- ## January 2018 March 2018
- Monte de Caparica, Setúbal, PT
- http://www.lifeshakers.blogspot.com/
- Participation and volunteering in the following social activities: Caparica Photovoice (Photography at Neighborhood), ABC do Judo (Judo's Training Classes), Diz Que Sim (Dancing's Classes), 123 Capacitar (Children's Didactive Games), De Mim Para Nós (Volunteering Services), AJA (Volunteering Services), Up Web (Design & Illustration), Corta o Preconceito (Videos' Productions), Micro Observatório Juvenil (Conversations, Interviews & Talks) and English Explanations (Preparatory School - 5th & 6th Year)

Education's Volunteer

ExpoFCT 2016 (Education Annual Event at Faculty of Sciences and Technology, New University of Lisbon - Caparica Campus)

- April 2016 April 2016
- Monte de Caparica, Setúbal, PT
- https://www.expo.fct.unl.pt/
- The ExpoFCT it's an annual event of presentation of the College and its Educational Offer, that have the main goal to facilitate the choice of the superior formation to pre-university young people, through demonstrations/activities in the following Science and Engineering areas: Cell & Molecular Biology, Biochemistry, Conservation-Restoration, Mathematics, Applied Chemistry, Environmental Eng., Biomedical Eng., Civil Eng., Electrical & Computer Eng., Physics Eng., Geological Eng., Micro & Nanotechnologies Eng. and Chemical & Biochemical Eng.
- Volunteering in the following activities, at ExpoFCT 2016: Fiat Lux À boleia dos fotões! and Pong

Education's Volunteer

AlmadaForma (Education Initiative from High School of Monte de Caparica)

- **#** June 2012 July 2012
- Monte de Caparica, Setúbal, PT
- https://www.almadaforma.net/
- Craftworks and handicrafts (Social Initiatives from High School of Monte de Caparica and Municipal Council of Almada)
- Management of documents (Certifications and Diplomas of some students that frequented some courses of the AlmadaForma's Training Center in High School of Monte de Caparica

MIDDLEWARE, APIS & FRAMEWORKS

APIs:

Cryptography & Internet Security:

Bouncy Castle Crypto



Web Services:

REST

(Representational State Transfer)



SOAP

(Simple Object Access Protocol)



* Parallel Computing Platform in GPUs:

CUDA (Compute Unified **Device Architecture**)



>_ Run-time Environments:

Node.js



Frameworks:

★ Intelligent Multi-agent Systems:

JADE (Java Agent

Development Framework)



♣ Distributed Cluster-Computing:

Apache Spark



Applications and Inversion of **Control Containers:**

Spring Boot Framework



♣ Object-relational Mapping Tool:

Hibernate ORM



JavaScript-based Open-source Framework for Front-End Web **Applications:**

> AngularJS (Angular.js) Vue.js (Vue)



PHP-based Open-source Framework for Web Applications:

Laravel



Open-source Front-end Framework for Developing Websites and Web Applications:

Bootstrap





Gym & Bodybuilding/MMA & BJJ Training Classes

Fox Gym/GFTeam Porto (Paranhos)

- September 2018 September 2018
- Marquês, Porto, PT
- https://www.foxgym.pt/
- http://www.gfteam.site/
- https://www.fpjjb.com/gfteamparanhos/
- Gym, bodybuilding, fitness and weight training
- Mixed Martial Arts & Brazilian Jiu-Jitsu training classes supervised by Prof. Alexsandro Almeida "Leko" (BJJ Black Belt Graduated)

Gym & Bodybuilding

Ginásio Super Olímpia

- September 2015 November 2015
- ♀ Laranjeiro, Setúbal, PT
- https://www.ginasiosuperolimpia.pt/
- Gym, bodybuilding, fitness and weight training

Gym & Bodybuilding

Ginásio Transformer

- Ctober 2011 December 2011
- Almada, Setúbal, PT
- Gym, bodybuilding, fitness and weight training

Soccer/Football

Monte de Caparica Atlético Clube (MCAC)

- 🛗 January 2010 October 2010
- Monte de Caparica, Setúbal, PT
- Goalkeeper and central back at Junior's team squad
- Football Association of Setúbal's 2nd League Complementary Tournament for Juniors A/Sub 19 players

Gym & Bodybuilding

Girassus Fitness Club

- September 2018 Present
- ♥ Laranjeiro, Setúbal, PT
- Gym, bodybuilding, fitness and weight training

Swimming

Sociedade Filarmónica União Artística Piedense (SFUAP)

- 🛗 September 1998 May 2002
- Ocva da Piedade, Setúbal, PT
- https://www.sfuap.pt/
- Swimming for children by Primary School's recreation centre

MIDDLEWARE, APIS & FRAMEWORKS

Frameworks:

Quantum Computing
Open-Source Framework
Cloud-Based for Simulations in
Quantum Computers
and Quantum Processors:

QISKit (IBM Q Experience)

PyQuil (Rigetti Computing Forest SDK)

Mobile Application Development Frameworks:

Apache Cordova Ionic



Document Preparation System:

LaTeX



IDEs & Programming Tools:

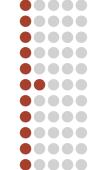
Eclipse IDE Spyder IDE NetBeans IDE Turbo Pascal



Jet Brains:

App Code
CLion
Datalore
DataGrip
GoLand
IntelliJ IDEA
PhpStorm
PyCharm
Rider
RubyMine

WebStorm



Microsoft Visual Studio:

Microsoft Visual Code Unity3D Xamarin for Visual Studio



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G Google:

Android Studio

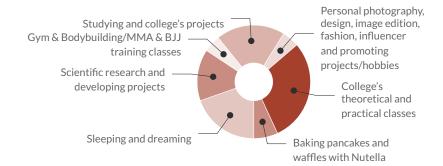


Apple:

Xcode



A DAY OF MY LIFE



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AWARDS AND ACTIVITIES

- Organizer of "Desfile do Caloiro 2015" at Faculty of Sciences and Technology, New University of Lisbon (FCT NOVA | FCT-UNL)
- Winner of "Desfile do Caloiro 2013" at Faculty of Sciences and Technology, New University of Lisbon (FCT NOVA | FCT-UNL)
- Vice-winner of "Baile de Finalistas 2013" at High School of Monte de Caparica (ESMC)

Assemblers, Command-Shells, Compilers & Interpreters: Free Pascal **IPython Jasmin** 00000 JavaCC (Java Compiler Compiler) Low Level Virtual Machine Yacc (Yet Another Compiler-Compiler) Hardware, Sensors & Microcontrollers: **Arduino IDE** Text Editors: Notepad++ Atom **Brackets SublimeText PL/SQL Editors:** Oracle SQL Developer **Database Development Environment: Oracle APEX** (Oracle Application Express) SOFTWARE ATFORMS & TOOLS **♣** Virtualization: Hardware (Independent Hypervisors): Oracle VM VirtualBox QEMU (Quick Emulator) **VMware Workstation ▶** Operative System Level (Application Containers): Docker **Jill** Data Science: RapidMiner Studio IoT & Cloud Platforms:

Atmosphere

Hardware Analysis, Design and Synthesis:

Xilinx ISE

A DRIVING LICENSE

SOFTWARE PLATFORMS & TOOLS

■ Software Stack:	
WampServer	••••
A desiriet vetice Teals	
Administration Tools: phpMyAdmin	
• ✓ Version-control Systems:	
⊘ Web-based Hosting Servi	ces:
Atlassian Bitbucket Azure DevOps GitHub GitLab	
Git Clients :	
Atlassian Sourcetree GitHub Desktop GitKraken	
git Branching Models for Git	•
GitFlow	•••••
A 10.41 1000.010 1	
UML and BPMN Design Too StarUML	
Modelio	••••
₩ [©] OTHERC	
♥ \$ OTHERS	
	ats:
Google Protobuffers	
JSON (JavaScript Object N	lotation)
Web Cross-browser Animated 3D Computer Gr	aphics:
Three.js	
Interactive Diagrams and Gon the Web:	raphs
GoJS	•••••
Functional Reactive Progra	mming.
Bacon.js	
Daconija	
Meteor (MeteorJS) React (React.js/ReactJS)	•••••

Q SCIENTIFIC RESEARCHES

Hyrax Project

NOVA LINCS (Informatics' Labs at Faculty of Sciences and Technology, New University of Lisbon - Caparica Campus)

- February 2017 January 2018
- Monte de Caparica, Setúbal, PT
- http://hyrax.dcc.fc.up.pt/
- http://nova-lincs.di.fct.unl.pt/
 https://www.fct.unl.pt/
- https://cracs.fc.up.pt/
 https://www.fc.up.pt/fcup/index.php
- http://www.cmuportugal.org/
- https://www.cmu.edu/
- A 3rd year's scientific research and development project, of the BSc. degree
 made in FCT NOVA, done between February 2017 and January 2018. This
 project it's called Hyrax Project (Crowd-Sourcing Mobile Devices to Develop
 Edge Clouds). This project it's based in the context of Edge Computing. I did
 this scientific research and development project, representing NOVA LINCS
 (Informatics' Labs at Faculty of Sciences and Technology, New University of
 Lisbon Caparica Campus) and under the supervision of Prof. Hervé Miguel
 Paulino
- This project, had also the collaboration of Faculdade de Ciências da Universidade do Porto (INESC TEC/CRACS - Centro de Sistemas de Computação Avançada) and Carnegie Mellon University's School of Computer Science
- Developed work in the Services' section of the Hyrax Project, most precisely, developing a data structure (for DiCE section), to be replicated for Mobile and Handheld Devices, in a notion of collaborative network, using Crowd-Sourcing features and shifting all the data processing and information services closer to the final users
- LaTeX Article/Paper (Portuguese Version)
- Final Presentation

PUBLICATIONS

Scientific Research Papers

 Rúben Barreiro, Pedro Sanches, Filipe Cerqueira and Hervé Paulino (2018). Hyrax: DiCE - Computação Distribuída e Colaborativa na Períferia. NOVA LINCS (Informatics' Labs at Faculty of Sciences and Technology, New University of Lisbon - Caparica Campus).

♥ OTHERS

Suite of Modular Libraries and Tools to Create Interactive Content on Open Web Technologies:

CreateJS:

EaseIJS

TweenJS

SoundJS

PreloadJS

Zöe



AJAX

(Asynchronous JavaScript and XML)

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AJAX Frameworks:

Google Web Toolkit (GWT/GWT Web Toolkit)

Microsoft .NET Libraries Frameworks:

Server-side Open-source Web Development:

ASP.NET

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♣ Object-relational Mapping:

LINQ

(Language Integrated Query)

2D/3D Graphics and Game Engines:

Unity

•••••

Software Libraries for Data Science:

Free and Open-Source Platform Distributions:

Anaconda

••••

Web-Based Interactive Computational Environments:

Jupyter Notebook

••••

Software Libraries for Python:

Matplotlib NumPy Pandas

SciKit-Learn SciPv

TensorFlow

••••• •••• •••• ••••

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CONFERENCES

Conference Proceedings

- Bernardo Barbosa, Bruno Pinto, Cláudia Guedes, José Mendes, Manuel Curral, Ricardo Lopes and Rúben Barreiro (2019). "Everyone Is a Hero". In: TalkABit 2019, Faculty of Engineering of University of Porto (F.E.U.P.):
 - Download the Mobile App Demo for Android here.

OTHERS

