

Rodrigo Nobre

- Computer Science and Engineering Student

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Profile

- \rangle Hi, my name is Rodrigo Nobre I'm from Portugal and a Software enthusiastic since I remember.
- \rangle I have a Bologna Graduation in Computer Science and Engineering by Instituto Superior Técnico.
- > Currently I am doing the Masters also in Computer Science and Engineering at Instituto Superior Técnico specialised in Cyber-Security and Software Engineering.

Education

2019 – 2021 Masters in Computer Science and Engineering
by Instituto Superior Técnico part of University
of Lisbon

2015 – 2019 Bolonha Degree in Computer Science and Engineering Instituto Superior Técnico part

of University of Lisbon

Experience

Deloitte.

-) On **July 2019** completed a **Summer Internship** at **Deloitte Portugal** in **Financial Services–IT**.
- Part of an International Project based in Canada where I could work directly with a real client and professional developers. Became part of the ETL Team and developed Service Testing and Data Transformation.
- > That month at Deloitte I was able to get a new perspective on **real coding implementation** and at the same time got a lot of **Soft Skills** from the side activities and presentations prepared by Deloitte.

Skills

- Advanced experience while programming using **C, Java** and **Python** language and using **OOP paradigm** while using of design patterns.
- > Understand **strategies for optimizing programs** taking into account the underlying computer architecture.
- \rangle Fundamental competencies on the **analysis of engineering problems** where the solution can be conceptualized as a system.
- \rangle Comprehension in the main **protocols of the Internet**. Able to **program network** applications using the **sockets** interface.
- \rangle Understand the most common software security issues (**Buffer Overflows, Race Conditions, XSS, etc**) and root causes. Knowledge in guidelines, techniques and tools for its prevention or detection.

> Comprehension in security and fault-tolerant aspects of the system design in the areas of **BlockChain** and **trustworthy computing**.

>Knowledge in Ciber-Security Forenses.

Projects

Recent University projects:

- > Developed a **static analysis** tool in **Python** that receives part of a code of a **web application in Json format**, and checks if a correct **sanitization** of the incoming input is made by the application. **2019**
- > Developed a **Highly Dependable Notary application** who **certify the transfer of ownership of arbitrary goods between users** using the **Portuguese Citizen Card used to certify its identity** and provide strong **cryptographic** guarantees on the transactions. The **system is resistant to Byzantine faults. JAVA 2019**
- angle Develop a compiler that parses a given language a produces executable code in C++ 2019
- \rangle Development a **networking application** in three: the user application and two server applications in **C Language** using **Socket TCP/IP** & **UDP 2018**
- \rangle Development of a system based on **Web Services** implemented in Java, to manage a bicycle platform shared on an App in **Java 2018**
- > Built a database management system from scratch a System Management of Forest Fires in PostgreSQL and PHP 2018

Self-Projects:

- \rangle Secret-Light Developed my own application using Android Studio, a simple application that converts characters or a given input text into Morse Code using the device flashlight in Java Android 2020
- > Learn-Braille Braille application with the objective to help people to learn braille in Java Android 2019.
- > **Hidden-Message** A **steganography** application of where the main idea is to hide an ASCII message inside the hexadecimal of JPEG/PNG format picture taken by the device and at the same time retrieve the message from the image. **(Currently Developing) Java Android**

Volunteer Experience

 $\rangle \ SINFO \ is \ a \ college \ student \ and \ non-profitable \ organization \ responsible \ for \ the \ planning \ of \ \textbf{one} \ \textbf{of}$ $\ the \ biggest \ Tech \ events \ in \ Portugal.$

SINFO

-) It's an annual conference that takes place at the **Alameda Campus** of **Técnico Lisbon**.
- \rangle I was part of part of the **Social Networks** and **Partnerships Teams** working for the **SINFO-26** edition which happened on **February 2019**.

Mentor

> The Mentoring Programme at **Instituto Superior Técnico** is implemented with the support of **older students** who, on a **voluntary** basis, with their academic experiences, **accompany new students** in order to facilitate their integration and adaptation.

Interests

- \rangle Federated athlete for 10 years on Roller Hockey at the following teams: Associação Desportiva de Oeiras, Parede Futebol Clube, Clube Desportivo de Cascais.
- \rangle Second place during chess tournament elapsed on Secondary School Sebastião e Silva.
- \rangle Aside from work I am passionate with sports in general but my top two are **Surf** and **Ski**.
- \rangle From cultural aspects love to play Guitar and Piano.