Rodrigo Nobre
- Computer Science and Engineering Student

Email: rodrigo.nobre@tecnico.ulisboa.pt

Phone: +351 916 005 840

WebSite: https://roderickoxen.github.io

GooglePlay: https://play.google.com/store/apps/developer?id=Rodrigo+Nobre

LinkedIn: https://www.linkedin.com/in/rnobre-profile/

Profile

〉Hi, my name is Rodrigo Nobre I'm from Portugal and a Software enthusiastic since I remember.

〉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 codding 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.

〉Fundamental competencies on the **analysis of engineering problems** where the solution can be conceptualized as a system.

〉Comprehension in the main **protocols of the Internet**. Able to **program network** applications using the **sockets** interface.

〉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 to receive 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 s**ystem is resistant to Byzantine faults**. JAVA – 2019

⟩ **Develop a compiler** that parses a given language a **produces executable code** in C++ - 2019

⟩ Development a **networking application** in three: the user application and two server applications in **C Language** using **Socket TCP/IP** & **UDP** - 2018

⟩ 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:

⟩ **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** - Developed my own application using **Android Studio**, a Braille application with the objective to help people to learn braille in **Java Android – 2019.**

Volunteer Experience

SINFO

⟩ SINFO is a college student and non-profitable organization responsible for the planning of **one of the biggest Tech events** in Portugal.

⟩ It's an annual conference that takes place at the **Alameda Campus** of **Técnico Lisbon.**

⟩ I was part of part of the **Partnerships Team** 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

⟩ **Federated athlete** for 10 years on Roller Hockey at the following teams: **Associação Desportiva de Oeiras**, **Parede Futebol Clube**, **Clube Desportivo de Cascais**.

⟩ Second place during **chess tournament** elapsed on **Secondary School Sebastião e Silva**.

⟩ Aside from work I am passionate with sports in general but my top two are **Surf** and **Ski**.

⟩ From cultural aspects love to play **Guitar** and **Piano**.