

## **EDUCATION**

Advanced Studies in Computer Science Programming Languages Specialization

NOVA School of Science and Technology | Portugal

2010 - 2016

FCT - MCTES Scholarship

MSc in Computer Science

NOVA School of Science and Technology | Portugal

> 2008 - 2010 GPA: 18/20

**BSc** in Computer Science

NOVA School of Science and Technology | Portugal

2005 - 2008

Merit Scholarship | 2005 - 2006

GPA: 17/20

# **SOFT SKILLS**

- Good Communication
  - Critical Thinking •
- Teamwork & Collaboration •
- Problem Analysis and Solving
  - Self-driven & Motivated
    - Quick Learner •

## HARD SKILLS

**Programming Languages** 

C#, Java (Expert)

Kotlin, Scala, OCaml, C++ JavaScript, SQL (Proficient)

Python, TypeScript (Intermediate)

Tools & Frameworks

SMT - Z3, SVN, Git, LaTeX HTML, XML, CSS, Arduino Angular4, Vue.js

# Tiago Santos

Software Engineer

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in tvcsantos

Software Engineer

WORK

Mercedes-Benz Portugal | 2019 - Present

Main programming languages used: Java, SQL, Kotlin Other technologies & frameworks used: Spring, PCF, AWS, Jenkins, SonarQube, Docker, K8s, Jira, Confluence, Bitbucket, GitHub

Software Engineer

Affinity @ Collab, Collab | 2016 - 2017, 2017 - 2019

Back-end engineering work on the main product, an IP-based multimedia contact center solution.

Main programming languages used: C#, SQL

Other languages, tools & frameworks used: Java, C++, C, JavaScript, TypeScript, Angular4, Microsoft Azure & Azure DevOps

Research Assistant

NOVA School of Science and Technology | 2009 - 2016

Worked on static analysis techniques for automatic program verification during application development of imperative programs with data structures and aliasing.

Advisor: Prof. Luís Caires.

Teaching Assistant

NOVA School of Science and Technology | 2009 - 2016

Lectured courses on programming languages and computational logic for computer science students and other engineering students.

## **PROJECTS**

#### Pulse

An Arduino ultrasonic parking sensor https://tvcsantos.github.io/pulse

## **FunSpec**

Functional specification assertion language for static program verification https://tiago.santos.com.pt/funspec

## **INTERESTES**

- Walking & Nature
- Music, Movies & TV Shows
- Electronics, Robotics & Automation
- Do it yourself (DIY)

#### **ImProVe**

Automatic static imperative program verification

https://tiago.santos.com.pt/improve

## SpecJava

Java compiler type system extension with lightweight static logical assertions https://tvcsantos.github.io/specjava

## LANGUAGES

- Portuguese (Native)
- English (Professional)