




Tiago Santos

Software Engineer

 tiago.santos.com.pt

 tiago@santos.com.pt

   [tvcsantos](https://www.youtube.com/tvcsantos)

WORK

Software Engineer

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.

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

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>

ImProVe

Automatic static imperative program verification
<https://tiago.santos.com.pt/improve>

SpecJava

Java compiler type system extension with lightweight static logical assertions
<https://tiago.santos.com.pt/specjava>

INTERESTES

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

LANGUAGES

- Portuguese (Native)
- English (Professional)