

GUILHERME GUERREIRO

SOFTWARE ENGINEER

SUMMARY

Software engineer with deep knowledge in several fields including Full-Stack development, Software Security, Formal Methods, and DevOps. Holds a Bachelor's degree in Computer Science and has roughly 3 years of working experience in the fields of Software Security and Full Stack development. Supportive and enthusiastic team member with proficiency in sprint planning, meeting coordination and architecture structuring.

SKILLS

Javascript	<div style="width: 100%;"></div>
Python	<div style="width: 100%;"></div>
HTML/CSS	<div style="width: 100%;"></div>
Golang	<div style="width: 80%;"></div>
C/C++	<div style="width: 70%;"></div>
Haskell	<div style="width: 60%;"></div>
Java	<div style="width: 50%;"></div>
TLA+	<div style="width: 40%;"></div>
VDM++	<div style="width: 30%;"></div>

LANGUAGES

Portuguese	N
English	C2
Japanese	B2
Spanish	B2

CONTACT

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WORK EXPERIENCE

Full Stack Developer Bosch Portugal. (2019 - Present)

Developed from scratch an entire SaaS application to automatically generate HSM software using a REST API to communicate between services.

Software: Django, ReactJS, MySQL, Docker, Jenkins, NGINX, RabbitMQ.

- Developed and implemented a scalable application taking into consideration the demanded requirements.
- Proposed innovative architectural implementations to improve the stability and usability of the platform.
- Lead the development team as Project Leader by meticulously planning tasks and sprints, guiding new members, maintaining the repositories, writing and organizing documentation, assembling feedback for new features and improvements.

Security Software Developer Bosch Portugal. (2019 - 2020)

Analyzed malfunctions and developed solutions for the HSM Software. Delivered the software to the customers by gathering the desired requirements and generating the Software accordingly. Tested the Software into the ECU specified hardware to ensure safety when deploying to production.

Languages: C/C++, Assembly, Python.

- Supported customers in helping compose the necessary requirements, debugging the HSM software, and integrating the delivered files into their ongoing projects.
- Analyzed the AUTOSAR environment by developing Unit Tests, utility functions and exploring the extended documentation.
- Worked and collaborated with team members from several parts of the world.

EDUCATION

University of Minho Software Engineering (Bachelor's degree)

Enrolled in the Software Engineering course where fields such as functional and imperative programming, mathematical logic, network communication, and computer architecture were addressed.

Languages: C, Java, Haskell, Assembly, Prolog, MatLab

Software Security and Formal Methods Software Engineering (Master's program)

Enlisted in the Master's program lasting 2 years in two distinct areas: Software Security and Formal Methods. Acquired knowledge in the fundamentals of both areas, and developed numerous projects with different toolings and languages.

Software: MCRL2, Alloy Analyzer, NuSMV, Frama-C, Why3, SMT-LIB, Coq, UPPAAL, Lean, Anaconda.

Aarhus University Software Engineering (Erasmus Program)

Erasmus Program in Aarhus, Denmark to complete the last year of the Master's Program. Matriculated in two high demanding classes: Distributed Systems and Security, Modelling of Critical Systems. Started the Master's thesis which was afterward dropped. It consisted in using Formal Methods to model the OAuth2 Protocol and simulate known attacks on the protocol.

Software: TLA+, VDM++, Golang