CÉSAR SILVA

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EXPERIENCE

Backend Developer (Freelance)
Jun 2025 - Present (Part-time)

Confidential Client (Energy & Sustainability sector)
Remote

- Designed and implemented backend architecture for a web-based platform in the energy sector.
- Development of APIs and core services using Python and FastAPI, with focus on scalability.

ADAS Software Engineer
Jun 2021 - Present

Critical Techworks
Porto, Portugal

- Working on Autonomous Driving and ADAS software for BMW vehicles, using C++, at the application layer
- Development and integration of Longitudinal and Lateral features like Cruise Control (xCC), Speed Limit Device (SLD), Side Collision Detection (SCD) or Road Consolidation (RoCo)
- Development of map interpretation features for use in AD
- Unit testing for Autonomous Driving components
- Conduct code quality improvements to comply with AD and MISRA specifications
- Developed a framework for KPIs of CV algorithms

ABAP Developer
Dec 2017 - May 2020

SCORE Consulting
Lisbon, Portugal

- Development and testing of software applications with multiple platform integration
- Optimization of implemented processes at ABAP level
- Creation of ALVs, WebServices, BDCs, Objects, Reports and User-Exits for FI and FSCD modules
- User Interface design, debugging and testing for quality assurance
- Change management and release activities

SAP Functional Analyst FS-CD
May 2017 - Dec 2017

SCORE Consulting
Lisbon, Portugal

- Optimization of implemented processes at functional level
- Definition of requirements for new solutions

EDUCATION

Master's Degree in Applied Mathematics
2014 - 2017

Mathematics & Physics Department, Instituto Superior Técnico
Lisbon, Portugal
Completed Curricular part, unfinished Master's thesis

Bachelor's Degree in Mathematics
2007 - 2014

Mathematics Department, University of Coimbra
Coimbra, Portugal
Completed first year towards a Master's in Computational Mathematics

SKILLS

Languages: Portuguese (Native), English (C)
Programming: C, C++, Python
Tools/**Frameworks**: Jira, Github, Wolfram Alpha, Flutter, Matlab
Familiar: ABAP, Django, Protobuf, SOAP UI, Dart

PERSONAL DEVELOPMENT

Neural Networks and Deep Learning, deeplearning.ai on Coursera	2020
SCRUM Hands-On Workshop, Bright Knowledge	2019
Learn SAP ABAP Objects, Udemy	2019
RPA Developer Foundation, UIPath Academy	2018
Delta ABAP Workbench SAP Netweaver 7.5, SAP Portugal	2018
Financial Markets, Yale University on Coursera	2017
SAP Insurance Collection and SAP Collection & Disbursements, SAP Portugal	2017
Oscillations in Gravity-Driven Fluid Exchange, 28th ECMI	2015
Students Association of the Science and Technology Faculty of the University of Coimbra, FCTUC	2011 - 2013
Chairman of the Mathematics Student Organiztion, NEMATEG	2008 - 2011