

CÉSAR SILVA

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EXPERIENCE

Backend Developer (Freelance)

Aug 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
Completed Curricular part, unfinished Master's thesis

Lisbon, Portugal

Bachelor's Degree in Mathematics

2007 - 2014

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

Coimbra, Portugal

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 Organization, NEMATEG

2008 - 2011