

CÉSAR SILVA

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EXPERIENCE

Backend Developer (Freelance)	Jun 2025 - Present (Part-time)
Portablebit	Remote
• Developed backend architecture and solutions for Portablebit website, using Python and FastAPI.	
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 Collection Collections & Disbursements, SAP Portugal	2017
Oscillations in Gravity-Driven Fluid Exchange, 28 th 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