

Bruno ROQUE

PLACE AND DATE OF BIRTH: Portugal — 06 October 1989
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GITHUB: <https://github.com/BrunoRoque06/GeneticAlgorithm>

WORK EXPERIENCE

AUG 2017	Software Engineer at Vodafone, Glasgow
APR 2017	Development of software tools using .NET (C#, Windows Presentation Foundation), SQL, and Python in order to automate processes. Improved the Drop Call Rate of northern areas in the UK by more than 30%.
MAR 2017	Software Engineer R&D at Celfinet, Lisbon
OCT 2015	Software development using .NET (C#), and Extreme Programming (test driven development, and code review) on an Agile environment. Research on algorithms of geolocation of mobile network traces using radio frequency propagation models. Improved the geolocation error of 278 meters to less than 131 meters. Use of Genetic Algorithms to calibrate those models.
SEP 2015	Software Engineer R&D at Instituto Telecomunicações, Lisbon
JAN 2015	Software development using C++ (OpenCV) for a video processing company: detection of black frames, black margins, flashes, block effect, removal of subtitles and inpaint on video sequences. Algorithm for the detection of flashes was published and presented in QoMEX conference.

EDUCATION

DEC 2014	MSc in Electrical and Computer Engineering
SEP 2007	Instituto Superior Técnico, Lisbon
	Main Subjects: Algorithms and Data Structures, Computer Networks and the Internet, Information Systems and Databases, Mobile Communication Systems, Networks and Computer Security, Object Oriented Programming, Optical Fiber Telecommunication Systems, Radio Wave Propagation.

PUBLICATIONS

JUL 2015	Roque, B., “Improving Energy Efficiency in Cellular Networks Using Multicell Cooperation”, In: 10th Conference on Telecommunications, ConfTele 2015.
MAY 2015	Carreira, L. and Rodrigues, N. and Roque, B. and Queluz, M.P., “Automatic Detection of Flashing Video Content”, In: Quality of Multimedia Experience (QoMEX), 2015 Seventh International Workshop on, pp. 1-6.

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LANGUAGES

PORTUGUESE: Native
ENGLISH: Proficient User
GERMAN: Basic Knowledge

COMPUTER SKILLS

Basic Knowledge: HTML/CSS, JavaScript, Python
Advanced Knowledge: C#, C++, Java, SQL, Matlab, LaTeX
Software Development: Test Driven Development, Code Review, Agile
Software: Visual Studio, Git, Microsoft SQL Server, IntelliJ IDEA,
Team Foundation Server, Microsoft Office

PROFESSIONAL DEVELOPMENT

- Genetic Algorithms, Machine Learning, Blockchain, Chess Engine, and other side projects on [GitHub](#).
- Machine Learning by Stanford University, on Coursera. [Certificate](#) earned on April 20, 2017.
- Course of Design Thinking, Design Kit: Prototyping, Acumen, 2015.

ACHIEVEMENTS

- Federated [Chess Player](#).
- Open Water Diver, Professional Association of Diving Instructors (PADI), November 2016.
- Driving License, B/B1, January 2010.

INTERESTS AND ACTIVITIES

Chess, Literature, Cinema, Travel, Music (Guitar), World History, Philosophy, Board Games, Running, Swimming, Football.