

Bruno ROQUE

PLACE AND DATE OF BIRTH: Portugal — 06 October 1989
ADDRESS: 90 Great Western Rd, Glasgow G4 9AD, Scotland
PHONE: (+351) 967 922 654
EMAIL: brunoroque06@gmail.com
WEBSITE: <https://BrunoRoque06.github.io>
LINKEDIN: <https://www.linkedin.com/in/BrunoRoque06>
GITHUB: <https://github.com/BrunoRoque06/GeneticAlgorithm>

WORK EXPERIENCE

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| AUG 2017 | Software Engineer at Vodafone, Glasgow |
| APR 2017 | Development of software tools using .NET (C#, Windows Presentation Foundation) and SQL 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

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| 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

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| 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, 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.