Bruno Roque

Place and Date of Birth:	Portugal — 06 October 1989
Address:	Emil-Klöti-Strasse 7, 8406 Winterthur, Switzerland
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GitHub:	https://github.com/BrunoRoque06/GeneticAlgorithm

Work Experience

Aug 2017 – Apr 2017
Software Engineer at Vodafone, Glasgow
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 – Oct 2015
Software Engineer R&D at Celfinet, Lisbon
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 – Jan 2015
Software Engineer R&D at Instituto Telecomunicações, Lisbon
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 – Sep 2007
MSc in Electrical and Computer Engineering
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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GITHUB:	https://github.com/BrunoRoque06/GeneticAlgorithm

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.