

BRUNO ROQUE

SOFTWARE ENGINEER

ADDRESS: Bern, Switzerland
D.O.B.: 06 October 1989
NATIONALITY: Portuguese
MARITAL STATUS: Married
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GITHUB: <https://github.com/brunoroque06>



PROFESSIONAL EXPERIENCE

PRESENT NOV 2017	Software Developer at Spoud AG, Bern, Switzerland Development of a Data Market. Technologies: Java, Reactive Streams (RxJava), Spring, NodeJS (Type-script), Golang, Kafka, gRPC, Docker, Bazel.
AUG 2017 APR 2017	Software Engineer at Vodafone, Glasgow, Scotland Development of desktop applications in order to automate processes. Improved the drop call rate of northern areas of the UK by more than 30%.
MAR 2017 OCT 2015	Software Engineer R&D at Celfinet, Lisbon, Portugal Research on algorithms of geolocation for mobile and IoT networks using radio frequency propagation models. Improved the geolocation error of ~278 meter to less than 131 meter. Use of genetic algorithms to calibrate the models.
SEP 2015 JAN 2015	Software Engineer R&D at IT, Lisbon, Portugal Software development of video processing algorithms: detection of black frames, black margins, flashes, block effect, removal of subtitles and inpaint.

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.
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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.

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LANGUAGES

PORTUGUESE: Native
ENGLISH: Proficient
GERMAN: Intermediate ([A2](#))

SKILLS

TECHNOLOGIES: Java, Reactive Streams (RxJava), Spring, NodeJS (Typescript),
Golang, Kafka, gRPC, Docker, Bazel
TOOLS: IntelliJ, VSCode, Vim, Git, Gerrit, Bash/Zsh, Tmux
DEVELOPMENT: Test Driven Development, SOLID, Clean Code

PROFESSIONAL DEVELOPMENT

- Genetic Algorithm, Machine Learning, Blockchain, Decision Tree Player and other side projects on [GitHub](#).
- [Front-End Web Developer Nanodegree](#), by Udacity, September 2017.
- [Machine Learning](#), by Stanford University on Coursera, April 2017.

ACHIEVEMENTS

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

INTERESTS

Chess, Classic Literature, Cinema, Board Games, Hiking, Cycling, Skiing, Swimming.