

# BRUNO ROQUE

Software Engineer

## INFO

📍 Zürich, Switzerland

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## TECHNOLOGIES

Dotnet



PostgreSQL (TimescaleDB)



Python



Node.js



Angular (Material, RxJS, XState)



ReactiveX



Azure (Pulumi)



Docker



## LANGUAGES

Portuguese - Native

English - Proficient

German - Intermediate

## EXPERIENCE

### Software Engineer

06.2019 – Present | Raccoon Works, Zürich, Switzerland

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### Software Developer

11.2017 – 05.2019 | Spoud AG, Bern, Switzerland

Development of a real-time transport layer using Reactive Streams (RxJava), gRPC (Protocol Buffers), Apache Kafka. Development of a REST API (including Server Side Events) using Spring Web/WebFlux, Reactor, JPA, OpenAPI.

### Software Engineer

04.2017 – 08.2017 | Vodafone, Glasgow, Scotland

Development of a desktop application to automate the planning of neighbors in cellular networks. Improved the drop call rate of northern areas of the UK by more than 30%.

### Software Engineer R&D

10.2015 – 03.2017 | Celfinet, Lisbon, Portugal

Research of geolocation algorithms 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.

### Software Engineer R&D

01.2015 – 09.2015 | Instituto Telecomunicações, Lisbon, Portugal

Software development of video processing algorithms: detection of black frames, black margins, flashes, block effect, removal of subtitles and inpaint.

## EDUCATION

### MSc Electrical and Computer Engineering

09.2007 – 12.2014 | Instituto Superior Técnico, Lisbon, Portugal 

## PROFESSIONAL DEVELOPMENT

Present | Genetic Algorithm, Blockchain, Decision Tree Player and other side projects on GitHub. 

05.2021 | Architect Master Class, Juval Löwy, IDesign. 

03.2020 | Project Design Master Class, Juval Löwy, IDesign. 

11.2017 | Front-End Web Developer Nanodegree, Udacity. 

04.2017 | Machine Learning, Stanford University, Coursera. 