BRUNO ROQUE

Software Engineer

INFO

📍 Zürich, Switzerland

📞 (+41) 765 174 226

@ brunoroque06@gmail.com

Ⓦ brunoroque06.github.io

⌕ github.com/brunoroque06

in www.linkedin.com/in/brunoroque06

TECHNOLOGIES

Dotnet	■ ■ ■
PostgreSQL (TimescaleDB)	■ ■ ■
Azure (Pulumi)	■ ■ □
Node.js	■ ■ □
Python	■ ■ □
Docker	■ ■ □
ReactiveX	■ ■ □
Angular (Material, XState)	■ □ □
Svelte (Bulma, XState)	■ □ □

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. ⬈

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

02.2019 | Java Web Services and RESTful API with Spring, Udemy. ⬈

01.2019 | Learn Apache Kafka for Beginners v2, Udemy. ⬈

11.2017 | Front-End Web Developer Nanodegree, Udacity. ⬈

04.2017 | Machine Learning, Stanford University, Coursera. ⬈