

Francisco Santiago – *Curriculum Vitae*

Mobile Phone +31 6 34 01 93 21

Email *francisco@brasant.com*

Date of Birth 19-02-1988

Nationality *Portuguese*

Residence *Amsterdam, NL*

Professional experience

Oct 2017 **Senior Full-Stack Python Developer**, SURFSara., Amsterdam, NL.
 Integrating Jupyterhub multi-user server with federated identity provider

Current

- Selection of most optimal open source tools for the job
- Partially developed SAML authenticator written in Python for Jupyterhub
- Designing architecture to support authentication flow
- Extending Coreos/Dex open source IdP to comply with OpenID Connect standards
- Dockerizing applications for ease of deployment
- Developing Helm Charts to deploy solution on existing Kubernetes cluster
- Developing Python adaptor to allow Jupyterhub to interact with Coreos/dex
- Setting up LDAP server with ACLs to fit the user lookup needs
- Customizing Jupyterhub frontend to provide meaningful authorization messages
- Automating tests using Gitlab Runners

Technologies: Python, Golang, Helm, LDAP, SAML, OpenID Connect, Docker, Kubernetes, RedHat

Feb 2017 **Senior Python Developer**, Liberty Global B.V., Schiphol-Rijk, NL.
Sep 2017 *Development of a data analysis system for network and video delivery components.*

- Designing, coding and testing ETL Python framework
- Designing and coding RESTful API to expose computed data to external systems
- Interacting with external teams to determine API requirements
- Development of Docker containers for deployment
- Creating setup for continuous integration
- Managing Elasticsearch structure, templates, mapping and indexing
- Managing Jenkins server for automated backups and deployment
- Analysing data to find correlations that allow long-term capacity planning
- Using machine-learning to find new ways of forecasting capacity usage

Technologies: Python, Pandas, NumPy, Flask, SKLearn, Elasticsearch, InfluxDB, Graphite, Docker, Jenkins, RedHat Linux, CentOS, PyEnv, Virtualenvwrapper

- Feb 2016 **Full-Stack Python Developer**, *Telegraaf Media Groep N.V.*, Sloterdijk, NL.
Nov 2016 *Development of a responsive online games portal*
- Implementation back-end to front-end communication for responsive layout
 - Adjusting front-end for presentation on mobile devices
 - Implementing advertisement behaviour and layout
 - Performing of SEO
 - Development of REST API for authentication and data management, using TDD
 - Integrating with newsletter service provider
 - Collaborating with third party game developers to integrate new games into the platform
 - Maintaining API for game developers to interact with platform

Technologies: Python, Flask, React.js, Redux, JavaScript, easyXDM, jQuery, HTML5, SASS, CSS3, MySQL, Redis, Celery, Google Publisher Tags, HAProxy, Varnish, Nginx, Jenkins, RedHat Linux, New Relic, PyEnv, Virtualenvwrapper

- Jan 2013 **Lead Python Developer**, *PT Inovação S.A.*, Aveiro, PT.
Dec 2015 *Development of a Radio Network, Quality of Service, ETL Framework*
- Development and maintenance of multi-process Python ETL framework
 - Integration with Telecom Network of 50+ million customers
 - Collecting data from dozens of network systems
 - Data processing and correlation (250 GB/day)
 - Follow-up meetings with clients
 - Training client support teams
 - Business trip to Brazil to deploy framework in client's network

Technologies: Python, MongoDB, Oracle DB, MySQL, Red Hat Linux, BASH, JMS, XML, GSM, UMTS and LTE networks, FTP, SNMP, SOAP, REST, Java, Pentahoo Kettle

- Jan 2012 **Full-Stack Developer**, *Inogate S.A.*, Coimbra, PT.
Oct 2012 *Development of online multi-tenant project management platform*
- *Designing and developing of node.js application*
 - *Implementing a single-page application, before Angular.js and React.js became popular*
 - *Design of front-end*

Technologies: Node.js, JavaScript, jQuery, HTML5, CSS3, Web Sockets, Express.js, Redis, MongoDB

Training

- 2017 **Django** – Zeolearn
2016 **React.js + Redux** – Agap2 IT
2016 **Python** - Udemy

Education

- 2014 **Post-Graduation** – Real-estate Management and Evaluation
- 2006 - 2011 **Bachelor in Computer Science** – Instituto Superior de Engenharia de Coimbra

Languages

- Portuguese Native
- English Fluent – British Council First Certificate in English
- French Basic
- Spanish Basic
- Dutch Elementary