

Tiago Manuel Andrade dos Santos

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<http://tmasantos.com>

- Full Stack Engineer, with experience in ReactJS, NodeJs, Python, C++;
- Experience in software architecture that scales;
- Google Cloud Platform: Kubernetes cluster, VPC, VPN, VMs and IAM;
- CI/CD experience, while maintaining high availability;
- Machine Learning for Autonomous Navigation (cloud), Image Processing, Sentiment Analysis, etc.

Experience

JANUARY 2018 - PRESENT

CTO, Full Stack Engineer - WELBO, Netherlands

- Moved the technology to the cloud (Google Cloud), proving the concept of Cloud-Robotics, where robots send their sensor data to the cloud and receive instructions from there, improving delivery times, with multiple software releases per day;
- Developed and deployed a microservices architecture, running in Kubernetes with RabbitMQ;
- Implemented a DevOps mindset. Using Bitbucket pipelines and the Google Cloud SDK for automated deployment.

JUNE 2016 - DECEMBER 2017

Robotics Engineer (Full Stack) - DECOS, Netherlands

- Led the developments, from scratch, of the first robot receptionist in the Netherlands, using technologies such as ReactJs, NodeJs, Docker; Python, C++, JavaScript, HTTP, HTML and CSS;
- In charge of the software architecture of the main reception product, which is still in use today at every client.

JULY 2011 - MARCH 2016

Research Engineer - UNINOVA - CA3, Portugal

- Part of projects for the European Space Agency: Developing hazard detection and avoidance techniques for autonomous landing spacecrafts, using Machine Learning and Data Fusion techniques;
- Developed Image Classification algorithms that resulted in scientific publications¹.

Education

2014 - 2016

Master's Degree in Machine Learning and Robotics Engineering - FCT Universidade Nova de Lisboa, Portugal

- Thesis in Machine Learning - Fuzzy Logic, for remote sensing classification using satellite images;
- Teacher Assistant to 1st year students of Electrotechnical Engineering.

2010 - 2014

Bachelor's Degree in Electrotechnical Engineering - FCT Universidade Nova de Lisboa, Portugal

Other

On my spare time I like to read about human behavior towards technology and how to integrate it better in our daily lives. I also like to keep up to date with the latest technology trends in order to improve my work. Another interest of mine is the Internet of Things and home automation. On the weekends there is nothing better than spending time with friends and traveling around the world as much as possible.

¹[Fuzzy-Fusion approach for Land Cover Classification](#) and [Land Cover Classification from Multispectral Data Using Computational Intelligence Tools: A Comparative Study](#)