

Gabriele Angeletti

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Experience

Software Engineer (Freelance), Larki Dec 2020 – Present

- Design and develop a system to automatically align Lidar point clouds.
- Research on 3D object detection/semantic segmentation approaches to extract information from point clouds.

Software Engineer, Lyft Level 5 Oct 2018 – Jan 2020

- Work as project lead on a distributed data pipeline to run large-scale Structure From Motion (SfM) on hundreds of millions of images.
- Implementation of an algorithm that detects traffic lights in imagery data and automatically performs 3D placement in a point-cloud.
- Design automated dashboards that constantly monitor SfM point-clouds quality.
- Work on an internal web app that works at scale to visualize driving patterns in real-time.

Research Engineer, Blue Vision Labs Jan 2018 – Oct 2018

- Design of a data pipeline to automate the testing and evaluation of 3D mapping and localization algorithms.
- Work on the cloud infrastructure to run distributed 3D mapping at scale.
- Research: test the use of deep learning at different stages of the mapping pipeline to improve quality.

Research Engineer intern, Blue Vision Labs Aug 2017 – Dec 2017

- Research: replacing SIFT with deep learning to improve 2D feature detection.
- Design and build a data lake with AWS Redshift to store imagery metadata.
- Implementation of algorithms to evaluate the 3D mapping system.

Freelancer, 2014 – 2017
Part-time work on different projects during university as a full-stack web developer.

Student, InnovAction Lab Spring 2013
Entrepreneurship course on how to create a startup and pitch ideas to investors.

Education	Sapienza University of Rome, 2015 – 2017 M.Sc. in Engineering in Artificial Intelligence and Robotics, (English Degree) Final grade 110/110 Thesis: <i>Adaptive Deep Learning through Visual Domain Localization</i> ¹
	Sapienza University of Rome, 2011 – 2014 B.Sc. in Engineering in Computer Science and Automation, (Italian Degree) Final grade 106/110 Thesis: <i>Statistical analysis of mobile apps reviews to improve users' QoE</i>
Technologies	<p>Python: three years experience working on large codebases in agile environments using test-driven development.</p> <p>Data pipelines: AWS kinesis, AWS Lambda, Spark, Airflow, Luigi.</p> <p>Databases: SQL, AWS (RedShift, S3), GCP BigQuery.</p> <p>Cloud technologies: experience with AWS and GCP services.</p> <p>Front-end: little experience with ES6, TypeScript, React.</p> <p>DevOps: Docker, Terraform, CircleCI, BuildKite.</p>
Projects	Deep Learning TensorFlow ² : Ready to use implementations of various Deep Learning algorithms using TensorFlow.
Publications	G. Angeletti, T. Tommasi, B. Caputo. "Adaptive Deep Learning through Visual Domain Localization". In: <i>IEEE International Conference on Robotics and Automation (ICRA)</i> (2018) ³
Languages	Italian, native speaker English, fluent spoken and written skills
Honors	Ranked 13 / 2189 among Python github users in Italy by ⁴ 2018
	Winner of Accenture Digital Hackathon Rome 2016
	NASA International SpaceApps Challenge 2015 Local winner (Rome) & Global winner for category Galactic Impact Project: CROPP—Cultures Risks Observation and Prevention Platform ⁵
Activities & Hobbies	Surfing, scuba diving, climbing. Writing on data engineering topics.

¹<https://github.com/blackecho/master-thesis>

²<https://github.com/blackecho/Deep-Learning-TensorFlow>

³<https://arxiv.org/abs/1802.08833>

⁴<http://git-awards.com/>

⁵<https://2015.spaceappschallenge.org/award/>