

Gabriele Angeletti

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Experience

Software Engineer, Lyft Level 5 Oct 2018 – Present
Working on distributed pipelines to turn large-scale imagery data into accurate 3D visual maps.
Automate maps quality assurance by leveraging tools such as BigQuery and Datastudio.
Development of visualization tools that works at scale and help identifying driving patterns.

Research Engineer, Blue Vision Labs Feb 2018 – Oct 2018
Design of data pipelines to analyze the behaviour of 3D mapping and localization.
Work on distributed algorithms to perform 3D mapping at scale.
Research on using machine learning throughout our mapping system to improve quality.

Research Engineer intern, Blue Vision Labs Aug 2017 – Dec 2017
Research on replacing SIFT with deep learning to improve local feature description.
Design of tools to assess the performance of our 3D mapping system.
Work on a data warehouse solution that scales to billions of records.

Contractor, 2014 – 2017
Part-time work on different projects during university, mainly in full-stack web development, web crawling, and natural language processing.

Student, InnovAction Lab Spring 2013
Entrepreneurship course about how to build startups and present business ideas directly 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: *Adaptive Deep Learning through Visual Domain Localization* ¹

Sapienza University of Rome, 2011 – 2014
B.Sc. in Engineering in Computer Science and Automation, (Italian Degree)
Final grade 106/110
Thesis: *Statistical analysis of mobile apps reviews to improve users' QoE*

Software engineering

Python: SciPy ecosystem, PyTorch, TensorFlow, PySpark
Data engineering: Spark, Airflow, Luigi
Databases: SQL, AWS RedShift, Google BigQuery
Cloud technologies: experience with AWS and GCP main services

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

Front-end: ES6, TypeScript, Angular
Golang: little experience with building microservices
DevOps: familiar with Ansible, Terraform, and Docker

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	Applications of machine learning to visual and musical arts Open source projects Data visualization

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/>